NO. 1219867

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK Hills	35-Ehp-W	EPA FRS ID No. 110012191430 D-18B	4-18-02

OPERATOR	CONTRACTOR	RIG NO.
OXY OF ELK Hills INC	KEY ENERGY SERVICES	479

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Ed Mulley	Philip Lamirand

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
57	GARDNER-DENVER	TRIPLEX	5X8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN			
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE			
6. TRIPS			
7. LUBRICATE RIG			
8. REPAIR RIG			
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS			
12. RUN CASING & CEMENT			
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21.			
22.			
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS			

DAYWORK TIME SUMMARY (OFFICE USE ONLY)			
HOURS W/CONTR. D.P.			
HOURS W/OPR. D.P.			
HOURS WITHOUT D.P.			
HOURS STANDBY			
NO DN TIME			
TOTAL DAYWORK			
NO. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HOURS			
DAILY MUD COST			
TOTAL MUD COST AFE 1-040-4414			

MORNING TOUR

DRILLING ASSEMBLY (Ascending Order)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARING/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

DAY TOUR

DRILLING ASSEMBLY (Ascending Order)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARING/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

EVENING TOUR

DRILLING ASSEMBLY (Ascending Order)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARING/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY	WIRE LINE RECORD REEL NO.
ELK HILLS	KERN	CA	

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

SIZE	NO. LINES	LENGTH SLIPPED
1	6	

LENGTH CUT OFF	PRESENT LENGTH
	840

WEAR OR TRIPS SINCE LAST CUT

CUMULATIVE WEAR OR TRIPS

DEPTH INTERVAL FROM	TO	DRILL-D REAM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

DEPTH INTERVAL FROM	TO	DRILL-D REAM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1230	1300	1/2	1	RIG DOWN + MOVE OFF
1300	1400	1	1	LOAD EQUIP
400	1500	1	1	MOVE IN, SPOT RIG + RAISE MAST
500	1600	1	1	GUY OUT, LAY HARDLINE + RIG UP PMP

DRILLER

DEPTH INTERVAL FROM	TO	DRILL-D REAM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	17:00	1	14	INSTALL HYRIL ANNULAR PREVENTER. + RIG up Flo
7:00	18:00	1/2 ~~1 1/2~~	6	Talley + RIH @ 7 5/8 Bit Tag @ 667', Secure Well + RIG

DRILLER

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

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No. 1219867

No. 1219868

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK HILLS	35-EHP-	EPA FRS ID No. 110012191430 WD-186	4-19-02

OPERATOR	CONTRACTOR	RIG NO.
OXY OF ELK HILLS INC	KEY ENERGY SERVICES	429

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
[illegible]	Philip Fournier

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
57	GARDNER-DENVER	TRIPLEX	5 x 8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN		2.5	
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE		1.0	
6. TRIPS		2.0	
7. LUBRICATE RIG		.5	
8. REPAIR RIG			
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS		6.0	
12. RUN CASING & CEMENT			
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21.			
22.			
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS		12.0	

DAYWORK TIME SUMMARY (OFFICE USE ONLY)

HOURS W/CONTR. D.P.	
HOURS W/OPR. D.P.	
HOURS WITHOUT D.P.	
HOURS STANDBY	
NO DN TIME	
TOTAL DAYWORK	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HOURS	
DAILY MUD COST	
TOTAL MUD COST AF41-040-44	

MORNING TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

DAY TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

EVENING TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

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EPA FRS ID No. 110012191430

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY
ELK HILLS	KERN	CA

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD	REEL NO.	
SIZE 1"	NO. LINES 6	LENGTH SLIPPED
LENGTH CUT OFF	PRESENT LENGTH 8'40'	
WEAR OR TRIPS SINCE LAST CUT		
CUMULATIVE WEAR OR TRIPS		

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0600	0700	~~1/2~~ 1/2	~~7~~ 6	SERV. RIG. Hold PRE-Job SFTY MTNG. P00H W/TBG + 7 5/8 b.
0700	0800	1	11.	RIG UP LOGGERS

DRILLER

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1	11.	RUN CSG LOGS
0900	1000	1	11.	RUN CSG LOGS
1000	1100	1	11.	RUN CSG LOGS
1100	1200	1	11.	RUN CSG LOGS
1200	1300	1	11.	RIG DN LOGGERS
1300	1400	1	6	PICK up 7 5/8 BIT + 4 4 3/4 DC's
1400	1500	~~1/2~~ 1/2 ~~6~~ 1		RIH W/TBG TAG @ 667' INSTALL CIRC HEAD
1500	1600	1	1	INSTALL CIRC HEAD & RIG UP PWR SWVL.

DRILLER

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WT. ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1700	1	5	CIRC + DRILL ON CMT CLR.
1700	1800	1	1	~~RIG~~ LAY DN SWVL + SECURE WELL + RIG

DRILLER

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

No. 1219868

No. 1219869

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK HILLS	35-EHP-WD-18G	EPA FRS ID No. 110012191430	4-20-02

OPERATOR	CONTRACTOR	RIG NO.
OXY USA ELK HILLS INC	KEY ENERGY SERVICES	429

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D.A. Mulkey

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Philip Lamirand

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
PMP #7	GARDNER-DENVER	PRIDE	9 x 8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN		1.5	
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE		7.0	
6. TRIPS		2.5	
7. LUBRICATE RIG		.5	
8. REPAIR RIG		1.0	
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS			
12. RUN CASING & CEMENT			
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21.			
22.			
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS		12.0	

DAYWORK TIME SUMMARY (OFFICE USE ONLY)			
HOURS W/CONTR. D.P.			
HOURS W/OPR. D.P.			
HOURS WITHOUT D.P.			
HOURS STANDBY			
1 HR DN TIME			
TOTAL DAYWORK			
NO. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HOURS			
DAILY MUD COST			
TOTAL MUD COST AFE J-040-441			

MORNING TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

DAY TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

EVENING TOUR

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

EPA FRS ID No. 110012191430

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY	WIRE LINE RECORD REEL NO.
	KERN	CA	

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

SIZE 1"	NO. LINES 6	LENGTH SLIPPED	
LENGTH CUT OFF		PRESENT LENGTH 8'40"	
WEAR OR TRIPS SINCE LAST CUT			
CUMULATIVE WEAR OR TRIPS			

DEPTH INTERVAL FROM	TO	DRILLED HEAMER CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WEIGHT ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0600	0700	1/2 1/2	7 6	SERV. RIG. Hold PRE-Job SFTY MTNG. POOH w/ TBG
0700	0800	1	6	Add 2 4¾ DC's To STRING RETURN w/ TBG

DEPTH INTERVAL FROM	TO	DRILLED HEAMER CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WEIGHT ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1	8	CHANGE OUT PWR SWVL
0900	1000	1	5	CONTINUE DRLG ON CMT CLR + CIRC @ 06
1000	1100	1	5	CONTINUE DRLG
1100	1200	1	5	CONTINUE DRLG MADE 2' OF HOLE
1200	1300	1	5	CONTINUE DRLG
1300	1400	1	5	CONTINUE DRLG ON CMT. CLR.
1400	1500	1	5	CONTINUE DRLG ON CMT. CLR.
1500	1600	1	5	CONTINUE DRLG ON CMT. CLR

DRILLER

DEPTH INTERVAL FROM	TO	DRILLED HEAMER CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	WEIGHT ON BIT	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1200	1/2 1/2	4 6	HANG BACK SWVL. POOH w/TBG
1200	1800	1/2 1/2	6 1	STAND BACK 4¾ DC's. SECURE WELL + RIG

DRILLER

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

No. 1219869

NO. 1219870

DAILY DRILLING REPORT

REPORT NO.

EPA FRS ID No. 110012191430

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK HILLS	35-EHR-WD-186		4-21-02

OPERATOR	CONTRACTOR	RIG NO.
OXY AT ELK HILLS INC	KEY ENERGY SERVICES	429

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
[illegible]	Philip Fournier

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
57	GARDNER-DENVER	TRIPLEX	5X8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN		1.5	
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE		6.5	
6. TRIPS		3.5	
7. LUBRICATE RIG		.5	
8. REPAIR RIG			
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS			
12. RUN CASING & CEMENT			
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21.			
22.			
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS		12	

DAYWORK TIME SUMMARY (OFFICE USE ONLY)

HOURS W/CONTR. D.P.			
HOURS W/OPR. D.P.			
HOURS WITHOUT D.P.			
HOURS STANDBY			
NO DN TIME			
TOTAL DAYWORK			
NO. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HOURS			
DAILY MUD COST			
TOTAL MUD COST			

MORNING TOUR

DRILLING ASSEMBLY (LAST STRING)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED TYPE	AMOUNT	TYPE	AMOUNT

DAY TOUR

DRILLING ASSEMBLY (LAST STRING)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED TYPE	AMOUNT	TYPE	AMOUNT

EVENING TOUR

DRILLING ASSEMBLY (LAST STRING)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED TYPE	AMOUNT	TYPE	AMOUNT

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

EPA FRS ID No. 110012191430

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY
ELK HILLS	KERN	CA

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD	REEL NO.	
SIZE 1"	NO. LINES 6	LENGTH SLIPPED
LENGTH CUT OFF		PRESENT LENGTH 840
WEAR OR TRIPS SINCE LAST CUT		
CUMULATIVE WEAR OR TRIPS		

DEPTH INTERVAL FROM	TO	DRILL'D REAMED CORE'D	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	ROTARY TORQUE	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0600	0700	1/2 / 1/2	7 / 6	SERV. RIG. Hold PRE-Job SFTY MTNG. RIH W/DC's
0700	0800	1	6	TALLY + PICK UP 4 additional DRILLER DC's (10 TOTAL)

DEPTH INTERVAL FROM	TO	DRILL'D REAMED CORE'D	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	ROTARY TORQUE	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1/2 / 1/2	6 / 1	RIH W/TBG. TAG @ 670'. PICK UP PWR SWVL
0900	1000	1	5	REVERSE CIRC + DRL OUT CMT STAGE TOOL
1000	1100	1	5	CONTINUE DRLG OUT FROM 670'
1100	1200	1	5	CONTINUE DRLG ON CMT STAGE TOOL
1200	1300	1	5	DRL ON CMT STAGE TOOL — DRL THRU TO 6
1300	1400	1	5	DRL ON FLOAT COLLAR @ 687'
1400	1500	~~1/2 / 1/2~~	~~5 / 1~~	DRL ~~THRU FLOAT CLR.~~ ON FLOAT COLLAR
1500	1600	1/2 / 1/2	5 / 1	DRL THRU FLOAT CLR RIG DRILLER PWR SWVL

DEPTH INTERVAL FROM	TO	DRILL'D REAMED CORE'D	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY TABLE SPEED	ROTARY TORQUE	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1700	1/2 / 1/2	6 / 6	POOH W/TBG. LAY DN DC's
1700	1800	1/2 / 1/2	6 / 1	LAY DN DC's (10) SECURE WELL + RIG
				DRILLER

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

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No. 1219870

NO. 12198/1

DAILY DRILLING REPORT

REPORT NO.

EPA FRS ID No. 110012191430

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK HILLS	35EHD-WD-186		4-22-02

OPERATOR	CONTRACTOR	RIG NO.
OXY OF ELK HILLS INC	KEY ENERGY SERVICES	429

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
57	GARDNER-DENVER	TRIPLEX	5 x 8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN		2.5	
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE			
6. TRIPS		2.5	
7. LUBRICATE RIG		.5	
8. REPAIR RIG			
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS			
12. RUN CASING & CEMENT		3.5	
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21. SET PKR		.5	
22. TEST PKR		.5	
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS		10	

DAYWORK TIME SUMMARY (OFFICE USE ONLY)

HOURS W/CONTR. D.P.			
HOURS W/OPR. D.P.			
HOURS WITHOUT D.P.			
HOURS STANDBY			
NO DOWN TIME			
TOTAL DAYWORK			
NO. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HOURS			
DAILY MUD COST			
TOTAL MUD COST AFE 1-040-441			

MORNING TOUR

DRILLING ASSEMBLY (Above Bit)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

DAY TOUR

DRILLING ASSEMBLY (Above Bit)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

EVENING TOUR

DRILLING ASSEMBLY (Above Bit)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE			
INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED			
TYPE	AMOUNT	TYPE	AMOUNT

ATTACHMENT L

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APPROVED APPROVED

EPA FRS ID No. 110012191430

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY
ELK Hills	KERN	CA

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD	REEL NO.	
SIZE 1.24	NO. LINES 6	LENGTH SLIPPED
LENGTH CUT OFF	PRESENT LENGTH 840'	
WEAR OR TRIPS SINCE LAST CUT		
CUMULATIVE WEAR OR TRIPS		

DEPTH INTERVAL FROM	TO	DRILL'D. REAM'D. CORE'D.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	MUD WT.	VISCOSITY	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2600	0700	½ / ½	7 / 1	SERV. RIG. Hold PRE-Job SFTy MTNG. HAUL IN CSG
0700	0800	1	12	RIG UP CSG EQUIP Hold SFTY MTNG.

DEPTH INTERVAL FROM	TO	DRILL'D. REAM'D. CORE'D.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	MUD WT.	VISCOSITY	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1	12	RUN 5" CSG + 8 5/8 Sump PKR.
0900	1000	1	12	RUN 5" CSG
1000	1100	½ / ½	12 / 1	RUN 5" CSG + LAND PKR @ 648'. RIG DN CSG EQ
1100	1200	½ / ½	6 / 21	RUN IN Hole W/opposed cup SETTING Pool 646' SET PKR
1200	1300	½ / ½	22 / 6	TEST ANNULUS. POOH W/TBG + Tools
1300	1400	1	6	PICK UP 3½ TBG. RIH + TAG @ ED
1400	1500	½ / ½	6 / 1	POOH W/ TBG. REMOVE ANNULAR PREVENTER
1500	1600	1	1	SECURE WELL + RIG. RIG DOWN FOAM EQUIP

DEPTH INTERVAL FROM	TO	DRILL'D. REAM'D. CORE'D.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	MUD WT.	VISCOSITY	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

ATTACHMENT L

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IADC - API OFFICIAL DAILY DRILLING REPORT FORM

APPROVED APPROVED

No. 1219871

No. 1219872

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
ELK HILLS 35EHP-WD-18G	35EHP-	WD-18G	4-23-0

OPERATOR	CONTRACTOR	RIG NO.
OXY OF ELK HILLS INC	KEY ENERGY SERVICES	429

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
KC Wells	Philip Lamiran

D.P. SIZE	WEIGHT	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.

PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
57	GARDNER-DENVER	TRIPLEX	5 X 8

TIME DISTRIBUTION – HOURS

CODE NO. – OPERATION	MORN.	DAY	EVE.
1. RIG UP AND TEAR DOWN		4.5	
2. DRILL ACTUAL			
3. REAMING			
4. CORING			
5. CONDITION MUD & CIRCULATE		3.0	
6. TRIPS		3.5	
7. LUBRICATE RIG		.5	
8. REPAIR RIG			
9. CUT OFF DRILLING LINE			
10. DEVIATION SURVEY			
11. WIRE LINE LOGS			
12. RUN CASING & CEMENT			
13. WAIT ON CEMENT			
14. NIPPLE UP B.O.P.			
15. TEST B.O.P.			
16. DRILL STEM TEST			
17. PLUG BACK			
18. SQUEEZE CEMENT			
19. FISHING			
20. DIR. WORK			
21.			
22.			
23.			
COMPLETION A. PERFORATING			
B. TUBING TRIPS			
C. TREATING			
D. SWABBING			
E. TESTING			
F.			
G.			
H.			
TOTALS		11.5	

DAYWORK TIME SUMMARY (OFFICE USE ONLY)			
HOURS W/CONTR. D.P.			
HOURS W/OPR. D.P.			
HOURS WITHOUT D.P.			
HOURS STANDBY			

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED TYPE	AMOUNT	TYPE	AMOUNT

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	
	OD	
	STANDS ___ D.P.	
	SINGLES ___ D.P.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		
TFA		
DEPTH OUT		
DEPTH IN		
TOTAL DRILLED		
TOTAL HOURS		

CUTTING STRUCTURE INNER	OUTER	DULL CHAR.	LOCATION
BEARINGS/ SEALS	GAGE	OTHER DULL CHAR.	REASON PULLED

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			
pH			
SOLIDS			

MUD & CHEMICALS ADDED TYPE	AMOUNT	TYPE	AMOUNT

DRILLING ASSEMBLY (At end of tour)

NO.	ITEM	LENGTH
	BIT	
	OD	
	OD	
	OD	
	OD	

BIT RECORD

BIT NO.		
SIZE		
IADC CODE		
MANUFACTURER		
TYPE		
SERIAL NO.		
JETS		

MUD RECORD

TIME			
WEIGHT			
PRESSURE GRADIENT			
FUNNEL VISCOSITY			
PV/YP	/	/	/
GEL STRENGTH	/	/	/
FLUID LOSS			

ATTACHMENT L

EPA FRS ID No. 110012191430

FIELD OR DISTRICT	COUNTY	STATE/COUNTRY	WIRE LINE RECORD REEL NO.
ELK HILLS	KERN	CA	SIZE 1" · NO. LINES 6 · LENGTH SLIPPED

LAST CASING TUBING OR LINER	SIZE	MAKE	WEIGHT & GRADE	NO. JOINTS	LENGTH	RKB. TO CSG. HD.	SET AT

LENGTH CUT OFF · PRESENT LENGTH 840'

WEAR OR TRIPS SINCE LAST CUT

CUMULATIVE WEAR OR TRIPS

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	[illegible]	[illegible]	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0600	0700	1/2 1/2	7 6	SERV. RIG. HOLD PRE-JOB SFTY MTNG. RIH TO 392'
0700	0800	1	1	RIG UP FOAMER

DRILLER

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	[illegible]	[illegible]	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1	5	CLEAN OUT WITH FOAM FROM 392' RECOVERING SAND
0900	1000	1	5	CLEAN OUT W/FOAM TAGGED BRIDGE @ 1485 WORKED 1
1000	1100	1/2 1/2	5 6	CLEAN OUT W/FOAM TO 1795'. POOH TO 600'
1100	1200	1/2 1/2	6 5	RIH TO 1795'. SPOT 150 bbls SAP + MORFLO ON BI
1200	1300	1/2 1/2	1 6	RIG OUT FOAMER. POOH LAYING DN TBG
1300	1400	1	6	LAY DN TBG
1400	1500	1/2 1/2	5 8	PMP biocide DN WELL. REMOVE FLANGE + SPOO
1500	1600	1/2 1/2	1 1	LOAD TBG EQUIP + FLOOR. INSTALL TREE.

DRILLER

DEPTH INTERVAL FROM	TO	DRILL'D REAM'R CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	[illegible]	[illegible]	PUMP PRESSURE	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	PUMP NO. 3 LINER SIZE	S.P.M.	PUMP NO. 4 LINER SIZE	S.P.M.	TOTAL PUMP OUTPUT

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORIZ. DISP.

TIME LOG FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1700	1	1	BREAK OUT HARDLINES + LOAD PMP.
1700	1730	1/2	1	SECURE RIG. RELEASE RIG

DRILLER

ATTACHMENT L

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