Osage Form No. 208

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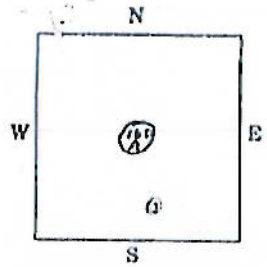

UNITED STATES

DEPARTMENT OF THE INTERIOR

INDIAN FIELD SERVICE

OSAGE AGENCY

FINAL REPORT OF COMPLETED OR DEEPENED WELLS

FOR LANDS COVERED BY DEPARTMENTAL LEASES

Specify Oil, Gas or Dry Dry

This Report must be typewritten and filed within ten days after well is treated or producing natural.

Company Operating Kewanee Oil Company Address P. O. Box 2239, Tulsa 1, Oklahoma

Lessee Kewanee Oil Company Lessor OSAGE TRIBE

Well No. Swan # 1-A SW ¼ Sec. 20 T. 24 N R. 4 E K.B.

Well located 330 Ft. From { N / S } Line and 1003 Ft. From { E / W } Line Elevation, D.F.

GL 1017'

Well drilled by Griffith Drilling Co. Superintendent

Date commenced drilling 3-22, 19 56 Finished 4-13, 19 56

Date commenced deepening, 19 Finished, 19

Casing Used in Drilling				Casing Left in Hole			Casing Perforations		
Length	Size	Wt. per ft.	Thread	Length	Landed at	Cement	Shots	Interval	
318 Ft.	8-5/8 Ins.	24 Lbs.	8R Per in.	318 Ft.	320 Ft.	250 Sks.	Holes, From	To	
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To	
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To	
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To	
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To	
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From	To	

What was done to protect sands when outside casing was pulled? none pulled

Formation Treatment (Hydrafrac, Sandfrac, etc.)

Gal. Oil Lbs. Sd. Gal. Acid, From To

Gal. Oil Lbs. Sd. Gal. Acid, From To

Gal. Oil Lbs. Sd. Gal. Acid, From To

Shot Qts., From To

If water completely shut off? Amount water with oil per cent. Is oil cut Gravity ° Baume

Oil Initial (Natural) Bbls. Hrs. Choke

Oil Initial (After Treatment)* Dry Bbls. Hrs. Choke

*After Total Load Has Been Recovered

Tubing

Gas—Initial open flow sand from ft. to ft. Cu. ft. rock pressure lbs. per sq. in.

Initial open flow sand from ft. to ft. Cu. ft. rock pressure lbs. per sq. in.

Location fee paid Mrs. Celestine Swanson & J. H. Swanson Date March 15, 1956 Amount, $ 150.00

(Sign here) Your position with the lessee Chief Clerk

TD 4200

00582 ~~00583~~

~~00582~~

SW ¼ Sec. 20 T. 24 N R. 4 E

Well Number Swan # 1-A

FORMATION RECORD

FROM	TO	FEET	Note each change in formation, i. e., sand, lime, shale, sandy shale, etc. Note character of each formation, i. e., color, hard, soft, caving, etc. Underreamed? Note contents of each formation, i. e., oil, gas, water, and kind of water—salty, etc.
Surface	40	40	Red to brown shale w/sand streaks
40	100	60	Red to brown shale w/trace of brown lime
100	120	20	Sandstone, light gray
120	200	80	Shale
200	320	120	Sand w/shale streaks
320	340	20	Gray shale
340	380	40	Lime & shale
380	426	46	Brown shale
426	434	8	Lime
434	466	32	Shale & sandy shale
466	500	34	Broken lime
500	576	76	Sand
576	1068	492	Shale & snandy shale w/lime streaks
1068	1084	16	Sand
1084	1118	34	Shaley sand & shale w/lime streaks
1118	1136	18	Sand
1136	1186	50	Shale
1186	1228	42	Sandy lime - Pawhuska
1228	1261	33	Shale
1261	1360	99	Sandy shale w/sand & lime streaks
1360	1389	29	Sand
1389	1456	67	Shale & shaley sand
1456	1578	122	Shale
1578	1657	79	Sand & sandy shale w/shale streaks
1657	1722	65	Sandy shale w/streaks of shale
1722	1744	22	Sand
1744	1848	4	Shale
1848	1877	29	Sand
1877	1925	48	Shale w/lime streaks
1925	1942	17	Sand
1942	1981	39	Shale w/sandy shale & sand streaks
1981	1988	7	Sand
1988	2030	42	Shale & sandy shale
2030	2049	19	Sand
2049	2138	89	Shale
2138	2143	5	Lime & shaley lime - Avant Zone
2143	2173	30	Lime - Avant
2173	2295	122	Lime, limey shale w/shaley sand streaks
2295	2318	19	Limey sand
2314	2352	38	Limey shale
2352	2374	22	Lime
2374	2469	95	Shale
2469	2508	39	Sand - Upper osage Layton
2508	2528	20	Limey shale w/sand streaks
2528	2533	5	Lime
2533	2612	78	Sand - lower osage layton
2612	2684	72	Sandy shale & shale
2684	2723	39	Sand, broken - Creek layton
2723	2904	81	Shale
2904	2912	8	Lime - Checkerboard
2912	2924	12	Shale
2924	2980	56	Tight, limey, shaley sand - Cleveland
2980	3043	63	Shale w/sandy shale streaks

(1017)

SW ¼ Sec. 20 T. 24N R. 4E

Well Number: Swan #1-A

FORMATION RECORD (CONTD)

FROM	TO	FEET	Note each change in formation, i. e., sand, lime, shale, sandy shale, etc. Note character of each formation, i. e., color, hard, soft, caving, etc. Underreamed? Note contents of each formation, i. e., oil, gas, water, and kind of water—salty, etc.
Surface			
3043	3052	9	Sand, tight & hard
3052	3078	26	Shale
3078	3200	22	Lime w/shale streaks - Big Lime
3200	3204	4	Shale
3204	3281	77	Lime - Oswego Lime
3281	3304	183	Limey shale
3304	3310	6	Hard limey sand w/coal streaks - Prue
3310	3314	4	Limey shale
3314	3330	26	Lime & sandy lime - Verdegries
3330	3368	38	Shale, limey
3368	3376	8	Sand, hard & tight - Skinner Zone
3376	3393	17	Shale, limey
3393	3413	20	Sand, hard & limey - Skinner
3413	3418	5	Shale
3418	3428	10	Lime - Pink Lime
3428	3435	7	Shale & sandy shale
3435	3474	39	Tight shaley sand & sandy shale- Red Fork Zone
3474	3490	16	Shale
3490	3548	58	Sand & sandy, limey shale - Bartlesville
3548	3607	59	Shale, limey
3607	3622	15	Shale & limey sand - Burgess Zone
3622	3635	13	Limey shale
3635	3734	99	Chert & chat, Mississippi
3734	3902	68	Lime, Mississippi
3902	3904	2	Sand, Misner
3904	3968	64	Sand & dolomite, 1st & 2nd Wilcox
3968	4090	22	Shaley dolomite and sand
4090	4200	110	Lime & dolomite - Arbuckle
4200			TOTAL DEPTH

FORMATION TOPS

Pawhuska Lime	1185	- 169
Avant Lime Zone	2128	-1111
Avant Lime	2142	-1125
Upper Osage Layton	2469	-1452
Lower Osage Layton	2533	-1516
Creek Layton	2636	-1609
Checkerboard Lime	2904	-1887
Cleveland Sand	2914	-1897
Big Lime	3078	-2061
Oswego Lime	3204	-2187
Prue Sand	3304	-2287
Verdegries	3314	-2297
Lower Skinner	3368	-2351
Pink Lime	3418	-2401
Red Fork	3435	-2418
Bartlesville	3490	-2473
Burgess Zone	3607	-2590
Mississippi Chat Zone	3635	-2618
Mississippi Lime	3734	-2717
Misner Sand	3902	-2835
First Wilcox	3914	-2847
Second Wilcox	3931	-2914
Arbuckle Lime	4090	-3073

Osage Form 208 (2002)

160 Acres

Spot well on Plat

N

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSAGE AGENCY
P.O. Box 1539
Pawhuska, Oklahoma 74056

Report of Completed & Deepened Wells
Within the Osage Reservation

Specify type of well
Oil, Gas, CBM,SWD, Dry, etc. SWD

Deepened to 5125'

One original must be filed within 10 days after completion of well.

Company operating CHAPARRAL ENERGY, L.L.C. Address 701 Cedar Lake Blvd., Oklahoma City, OK 73114

Lessee Chaparral Energy,L.L.C. Lessor OSAGE TRIBE

Well No. Swan 1A SW ¼ Sec. 20 Twp. 24N Rge. 04E Farm name Swan

Well located 330 ft from [N] [S] line, 1637 [E] [W] line, Elevation GL 1017' DF _____ KB _____

Elevation and location surveyed by TOPOGRAPHIC LAND SURVEYORS of OKLAHOMA

Drilling contractor(s) Blue Ribbon Drlg; Roadrunner Drlg. L.L.C. Began 02/26, 2011 Finished 03/11, 2011

Cable drilled interval and bit size(s) N/A

Mud ☒ Air ☐ Rotary drilled interval & bit size(s) 12 1/4" Surface to 318; 7.7/8" from 318' to 5125' (TD)

Casing Record

Size	Wt.	Landed at	Interval cemented	Cementing Contractor / Cement used; include type, gel, additives
8 5/8 ins.	24 lbs./ft.	318 ft.	318' to Surface	250 sks reg
5 1/2 ins.	17 lbs./ft.	4146 ft.	4146' to 3080'	235 sks Class A w/2% CaCl, 2% gel, 6#/sx Gilsonite, 6% OWC, 10% salt & 0.40 #/sx Phenoseal
ins.	lbs./ft.	ft.	to	

Interval(s) perforated _____ holes _____ to _____; _____ holes _____ to _____; _____ holes _____ to _____

Interval(s) left open 4146' - 5125' (Open Hole); Interval(s) shut off and method N/A

Plug back depth N/A Packer set? No Setting depth N/A Packer left in? N/A

How were fresh water and other zones protected? Surface pipe & cement circulated to surface

Flow ☐ Pump ☐ Swab ☐ Bail ☐

Initial 24 hour Production Rate Before Treatment

Casing ☐ Tubing ☐ Choke size _____ Oil _____ bbls., Gas _____ MCF, Water _____ bbls

Duration of test _____ hrs., Gravity _____ API FTP _____ psi SICP _____ psi SITP _____ psi

Formation treatment (shot, acid, fracture, etc.) Indicate amount of materials used (i.e., nitro, sand, water, acid, & other additives) and breakdown pressure.

Ran tbg to 5115'. Pumped 1500 gals 20% HCL & displaced w/20 BSW to spot acid in open hole (4146' - 5125'). Pulled tbg up hole to 4100'. Let acid soak in open hole. Pumped 250 BSW dwn tbg to flush acid @ 2000 psi

_____ Feet to _____
4146 Feet to 5125
_____ Feet to _____

Flow ☐ Pump ☐

Initial 24 hour Production Rate After Treatment and Recovery of Load

Casing ☐ Tubing ☐ Choke size _____ Oil _____ bbls., Gas _____ MCF, Water _____ bbls

Duration of test _____ hrs., Gravity _____ API FTP _____ psi SICP _____ psi SITP _____ psi

Location fee paid Mrs Celestine Swanson & J.N. Swanson Date 03/15/1956 Amount $ 150.00

Signature [signature] 4/11/2011 Position with Lessee Manager of Regulatory Affairs

SW ¼ Sec 20 T 24N R 04E

Datum Elev.

FORMATION RECORD

Well Number Swan # 1A

FROM	TO	FEET	Note each change in formation, i.e., sand, lime shale, sandy shale, etc. & name key beds. Note character of each formation, i.e., color, hard, soft, caving, etc. Underreamed? Note contents of each formation, i.e., oil, gas, water, and kind of water – fresh, etc.	
Surface	2469	2469	SS, LS, Shale	Must run and submit open hole logs sufficient to determine resistivity and porosity of all formations.
2469	2612	143	Osage Layton	Cased hole logs sufficient to correlate with open hole logs and determine cement bond quality.
2684	2723	39	Creek Layton	
2924	2980	56	Cleveland	Was well cored No, enter core description, submit core analysis.
3204	3281	77	Oswego Lime	
3490	3548	58	Bartlesville	Copies of cementing service tickets should accompany this report.
3635	3734	99	Miss Chat	Include drill stem, wire line, etc. test information.
3734	3902	168	Miss Lime	
4090	5125'	1035	Arbuckle	
TD:	5125'			
			Originally TD: 4200'	
			Deepened to 5125' & converted an Arbuckle water disposal well	

Osage Form 139

United States
Department of the Interior
Osage Indian Agency
Pawhuska, Oklahoma

Date: April 15, 2014

Application For the Operation or Report on Wells

SWAN

Mrs Celestine Swanson & J.N. Swanson — March 15, 1956 — $150.00

(Commencement money paid to whom) (Date) (Amount)

Well No.: 1A is located 330 Ft. from S line and 1637 Ft. from W line

SW/4 Sec 20 24N 04E Osage County, Oklahoma

(¼ Sec. & Sec. No.) (Twp) (Range)

The elevation of the ground level above sea level is 1017 Ft.

OS # 6267

Use This Side to Request Authority for Work
(Three Copies Required)

Notice of Intention To:

- Drill..... ☐
- Plug..... ☐
- Deepen or plug back.. ☐
- Convert..... ☐
- Pull or alter casing..... ☐
- Formation Treatment.. ☐
- ..... ☐

Details of Work

Drilling applications will state proposed TD & horizons to be tested. Show size & length of casings to be used. Indicate proposed mudding, cementing & other work.
Plugging applications shall set forth reasons for plugging & detailed statement of proposed work
Plugging will not commence until 10 days following approval date unless authority granted for earlier commencement.
A $15.00 plugging fee is also required with each application to plug.

_____ Bbls oil _____ Bbls water in 24 hrs

I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced.

Lessee:

Signature: _____

Title: _____

Use This Side To Report Completed Work
(One Copy Required)

Character of Well (oil, gas or dry) SWD

Subsequent Report of:

- Conversion..... ☐
- Formation Treatment.. ☒
- Altering casing..... ☒
- Plugging Back..... ☐
- Plugging..... ☐

Details of Work & Results Obtained

MIRU. POOH w/103 jts 2-7/8" 6.5# J-55 ceramic coated tubing and AD-1 Baker pkr. RIH w/167 jts of 2-7/8" PH-6, 7.9# P-110 tbg. RU Osage Wireline. RIH w/RBP and set @ 3100'. POOH w/WL. Rih w/wireline sand bailer and dumped 2 sxs sand on top of RBP. POOH w/WL. RIH w/CCL and 3-1/8" slick gun. Correlate w/ casing collar log dated on 05/17/2011. Shot squeeze holes from 2998' - 3000' w/ 3 spf (6 holes). POOH w/slick gun. RIH w/ 5-1/2" cement retainer & set retainer @ 2938'. RDMO Osage WL. P/U stinger. RIH w/95 jts 2-7/8" PH-6 P-110 tbg. (OVER)

Work commenced: 3/12/2014

Work completed: 4/15/2014

(Continue on reverse if necessary)

This block for plugging information only

Casing Record

Size	In Hole When Started	Amt. Recovered	If Parted Depth	How

Original TD _____

Lessee: Chaparral Energy, L.L.C.

By: Erwin Pino

Erwin Pino Production Engineer

Subscribed and sworn to before me this _____day of _____, 2014.

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

Sting into retainer. MIRU Tri-Am Cementers. Squeezed w/250 sks Class A lite cement, did not get circulation to surface. Pulled stinger out of retainer. Dumped cement on top of retainer. Max squeeze pressure 800#. RDMO Tri-Am. POOH w/95 jts 2-7/8" PH-6 tbg. WOC 48 hrs. RIH w/4-3/4" bit, 2-3-1/2 collars and 93 jts 2-7/8" PH-6 tbg to cement retainer. RU Power Swivel. Drilled out cement retainer, drilled out 65' of cement to 3003' and washed down sand to 3090'. Circ hole clean. POOH w/BHA. Pressure test casing to 500#, held. RU Osage WL. RIH w/CBL-GR-CCL from 3100' to 1500', found TOC @ 2910'. RIH w/RBP and set @ 2870'. RIH w/3-1/8" slick gun and shot squeeze holes @ 2868' - 2870' (6 holes). RIH w/5-1/2" cement retainer and set @ 2808'. RD Osage WL. Sting into retainer @ 2808. RU Tri-am Cementers. Pumped 324 sks cement, did not circulate to surface. WOC. POOH w/tbg and stinger. RIH w/bit and tbg.RU Power Swivel. Drilled out cement retainer @ 2808' and cement to RBP. RU Osage Wl. RIH w/CBL-GR-CCL. Log from 3090' to 2000', found TOC @ 2618'. RIH w/ RBP. Shot squeeze holes from 2465' to 2467' 2 spf. RIH w/cement retainer @ 2402'. RD Osage WL. Sting into retainer and pumped 172 sks reg cement. Sting out of retainer. RIH w/bit and tbg. Drilled 1/2 of retainer and broke it free and dropped down hole. RIH w/CBL-GR-CCL from 3073' to surface. had good bond from 2220-2280', 2356'-2368' and 2454' - 2468'. After several atempts to fish 1/2 of retainer, milled over fish and pushed dwon hole RBP. Cleaned out hole. RIH w/98 jts tbg and set RBP @ 3015'. RU Osage WL. RIH w/bailer and dumped 1 sx sand on RBP. Perforate Layton intervals 2760'-2772', 2732' - 2740' and 2688' - 2695' and perforated Osage Layton intervals 2590' - 2605', 2541'-2575', 2498'-2504' and 2474'-2484'. RDMO Osage WL. TIH w/89 jts 2-7/8" tbg. MIRU Basic Energy Services. Spotted 3,000 gals (total) 7.5% SME through perforations. Total water pumped 487 bbls. Release RBP & POOH. RIH w/2-7/8" x 5-1/2" Baker AD1 pkr & 2-7/8" injection string. Set pkr @ 2455'. Pressured up on csg to 500#, held. Will demostrate mechanical integrity prior to injection.