Osage Form 208 (2002)

160 Acres

Spot well on Plat

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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. gas

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

Company operating CRECO Operating LLC Address 210 Park Ave, Suite 1140, OKC, OK 73102

Lessee Same Lessor OSAGE TRIBE

Well No. 2 NE/4 Sec. 19 Twp. 25N Rge. 3E Farm name Searest

Well located 565 ft from [N] [S] line, 300 [E] [W] line, Elevation GL 1056' DF 1070' KB 1071'

Elevation and location surveyed by Topographic Land Surveyers of Oklahoma

Drilling contractor(s) Dan D. Drilling Began 12-29, 2012 Finished 1-10, 2013

Cable drilled interval and bit size(s)

Mud ☒ Air ☐ Rotary drilled interval & bit size(s) 12 1/4" 0' to 355'; 8 3/4" 355' to 4463'

Casing Record

Cementing Contractor Oklahoma Oilwell Cementing Co.

Size	Wt.	Landed at	Interval cemented	Cement used; include type, gel, additives
9-5/8 ins.	36 lbs./ft.	340 ft.	0 to 340	175 sx Class A regular cement w/3% CaCl + 1/4 #/sx flocele
ins.	lbs./ft.	ft.	to	
7 ins.	23 lbs./ft.	4463 ft.	to 4463	175 sx OWC lead cement and 140 sx Class H w/ 10 KCl + 1/4 #/sx flocele & .5%

Interval(s) perforated 4 SPF holes 4345' to 4349'; 4 SPF holes 3842' to 3854'; holes to

Interval(s) left open ; Interval(s) shut off and method

Plug back depth Packer set? Setting depth Packer left in?

How were fresh water and other zones protected? 9-5/8" csg & cmt; 7" csg & cmt

Flow ☒ Pump ☐ Swab ☐ Bail ☐

Initial 24 hour Production Rate Before Treatment

Casing ☐ Tubing ☐ Choke size Oil NA bbls., Gas NA 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.

Acidize w/ 1500 gal 7 1/2% NEFE HCl; flush w/ 32 bbls of 4% KCl water 4345 Feet to 4349

Acidize w/ 2500 gal 15% NEFE HCl; flush w/ 32 bbls of 4% KCl water 3842 Feet to 3854

Feet to

Flow ☒ Pump ☐

Initial 24 hour Production Rate After Treatment and Recovery of Load

Casing ☐ Tubing ☐ Choke size Oil 2 bbls., Gas 111 MCF, Water 5 bbls

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

Location fee paid Susie Vincent Date 1-22-13 Amount $ 9000.00

Signature D. Allen Position with Lessee VP - Operations

NE ¼ Sec. 19 T 25N R 3E Datum Elev. KB

FORMATION RECORD

Well Number Tiger 2-19

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	1339		Newkirk	Must run and submit open hole logs sufficient to
1340	1507		Pawhuska	determine resistivity and porosity of all formations.
1508	1840		Osrad	Cased hole logs sufficient to correlate with
1841	2064		Lovell	open hole logs and determine cement bond
2065	2172		Tonkawa	quality.
2173	2802		U. Osage Layton	
2803	2853		L. Osage Layton	Was well cored _____, enter core description,
2854	3156		Checkerbeard	submit core analysis.
3157	3331		Big Lime	
3332	3376		Oswego	Copies of cementing service tickets should
3377	3522		Cherokee	accompany this report.
3523	3835		Mississippi Chat	
3836	3864		Mississippi Lime	Include drill stem, wire line, etc.
3865	3909		Monkey Zone	test information.
3910	3954		TD	