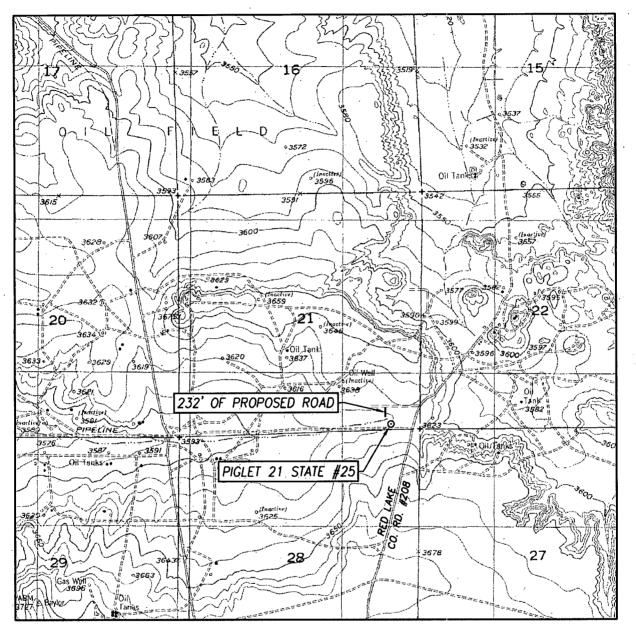
<u>STRICT 1</u> 25 N. French Dr., Hot Jone: (575) 393-6161 <u>STRICT II</u> 1 S. First St., Artesia, Jone: (575) 748-1283 F <u>STRICT III</u> 00 Rio Brazos Road, <i>A</i> 00 Rio Brazos Road, <i>A</i> 00 Rio Brazos Road, <i>A</i> 00 Rio, Francis Dr., S 20 S. St. Francis Dr., S 00 Rio, 1903 476-3460 f	NM 88210 Fax: (575) 748-9 Aztec, NM 8741(Fax: (505) 334-6	720) 170 505 462	C	Minerals DIL CON 1220 Santa I	SERVATIC South St. Fi Fe, New Me	Resources Dep N DIVISION rancis Dr. xico 87505	1	Submit on	Form C- vised August 1, 2 e.copy to approp District O: ENDED REPC
27.11	PI Number	WELI 202	$\frac{1 \text{ LOCA}}{Q_{I}}$	TION A		AGE DEDICA	TION PLA		
Property C			-10		Property Name IGLET 21 S'		JOGIEte	- Teso	ll Number 25
	0 <i>∞</i>				Operator Nam	e			levation
19241	\sim				Y U.S.A. W Surface Locati				3622'
UL or lot No. P	Section 21	Township 17-S	Range 28-E	Lot.ldn	Feet from the 135	North/South line . SOUTH	Feet from the 630	East/West line EAST	County EDDY
				Bottom Hole	e Location If Diffe	<u> </u>			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	······			 			l hereby cert	ATOR CERTIFI	erein is true and and belief, and
			GEODETIC C	 COORDINATES			OPER I hereby cert complete to that this orga unleased min proposed bo well at this la of such mine pooling agre	ATOR CERTIFI	erein is true and and belief, and orking interest or icluding the a right to drill this ract with an owne to a voluntary
		(GEODETIC C NAD 2 SURFACE Y=6595				OPER I hereby cert complete to that this orge unleased min proposed bo well at this h of such mine pooling agre heretofore en Bignature Printed Na Printed Na	ATOR CERTIFIE ify that the information bit the best of my knowledge inization either owns a wo erral interest in the land in thom bole location or has a coation pursuant to a contr ral or working interest, or ement or a compulsory po	rein is true and and belief, and orking interest or a right to drill this ract with an owne to a voluntary voling order Bate Date Bate COT
			GEODETIC C NAD 2 SURFACE Y=6595 X=5485 LAT.=32.8	COORDINATES 27 NME LOCATION 510.0 N			OPER I hereby cert complete to that this orge unleased min proposed bo well at this h of such mine pooling agre- heretofore en beretofore en Printed Na Cennic Frmail Ad SURV I bereby cert was plotted I me or under and correct the	ATOR CERTIFIE ify that the information be the best of my knowledge unization either owns a wo serial interest in the land it from hole location or has a coation pursuant to a contri- rial or working interest, or ement or a compulsory po- tared by the division.	recin is true and and belief, and orking interest or including the a right to drill this ract with an owner to a voluntary boling order Date Date Date CATION ishown on this plat surveys made by the same is true 2013

* : •

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

 SEC.
 21
 TWP. 17-S_RGE.
 28-E

 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE_NEW_MEXICO

 DESCRIPTION
 135' FSL & 630' FEL

 ELEVATION
 3622'

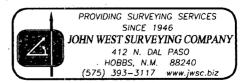
 OPERATOR
 OXY U.S.A. WTP LP

 LEASE
 PIGLET 21 STATE

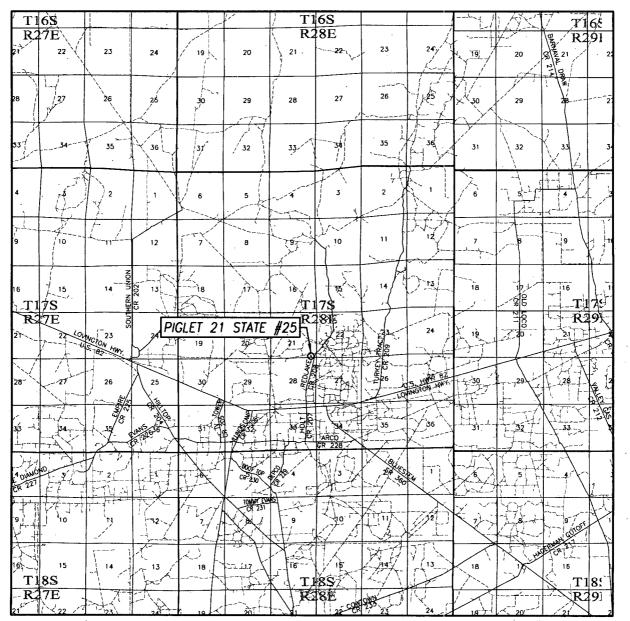
 U.S.G.S.
 TOPOGRAPHIC MAP

 RED LAKE, N.M.
 NM.

CONTOUR INTERVAL: RED LAKE, N.M. – 10' NORTH



VICINITY MAP



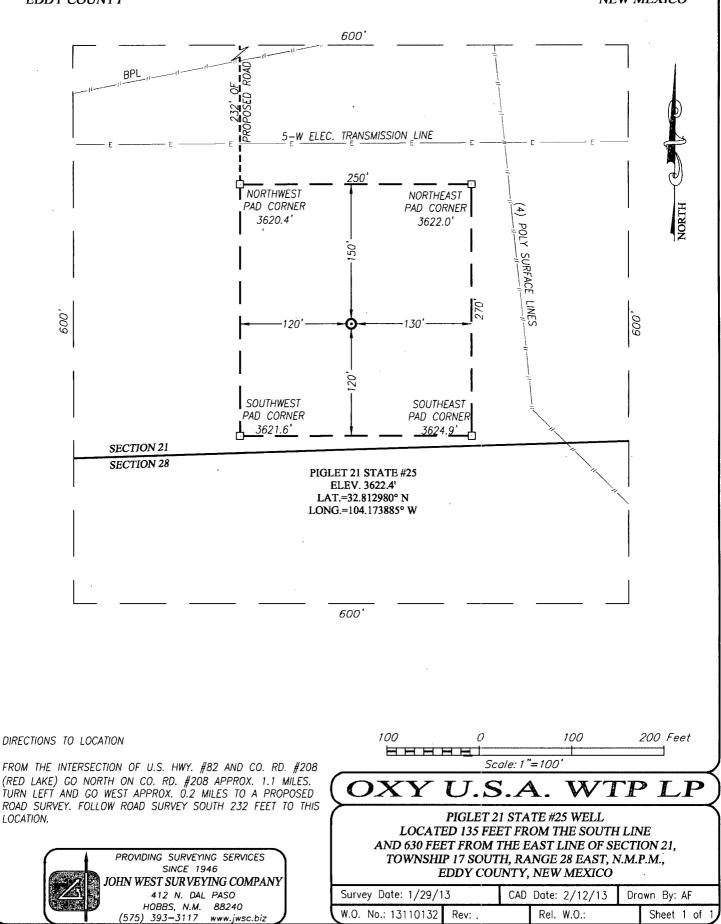
SCALE: 1" = 2 MILES

NORTH

SEC. <u>21</u> TWP. <u>17-S</u> RGE. <u>28-E</u>
SURVEYN.M.P.M.
COUNTY EDDY STATE NEW MEXICO
DESCRIPTION <u>135' FSL & 630' FEL</u>
ELEVATION 3622'
OPERATOROXY_U.S.A. WTP_LP
LEASE PIGLET 21 STATE

	PROVIDING SURVEYING SERVICES
	SINCE 1946
	JOHN WEST SURVEYING COMPANY
1.5.	412 N. DAL PASO
	HOBBS, N.M. 88240
	(575) 393-3117 www.jwsc.biz

SECTION 21, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY NEW MEXICO



C ABELF\2012\0XY U.S.A. WTP LP\Wells

APD DATA – DRILLING PLAN –

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: Piglet 21 State 25

STATE: NM **COUNTY:** Eddy

SURFACE LOCATION: 135' FSL & 630' FEL, Sec 21, T 17S, R 28E

C-102 PLAT APPROX GR ELEV: 3622'

EST KB ELEV: 3636' (14' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION a. Permian

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation	TV Depth Top	Expected Fluids
Rustler	Surface	Fresh Water
	Outcropping	
Yates	410	-
Seven Rivers	604	-
Queen	1170	-
Grayburg	1640	Oil
San Andres	1749	Oil/Water
Glorietta	3350	Oil
Paddock	3440	Oil
Blinebry	3900	Oil
Tubb – Base of Yeso	4820	Oil
TD	5100	TD

- A. Based on the State Engineer Website, there no known nearby water wells drilled in the area.
- B. The 16" conductor pipe will be set at 80' prior to spud.

GREATEST PROJECTED TD 5100' MD / 5100' TVD **OBJECTIVE**: Yeso

3. CASING PROGRAM

Surface Casing: 8.625" casing set at \pm 400' MD/ 400' TVD in a 11" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Condition	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 400'	400'	24	J-55	New	ST&C	1370	2950	381	8.097	7.972	10.17	1.72	45.54

Production Casing: 5.5" casing set at ± 5100'MD / 5100'TVD in a 7.875" hole filled 9.6 ppg mud

Interval	Length	Wt	Gr	Condition	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 5100'	5100'	17	L-80	New	LT&C	6290	7740	338	4.892	4.767	2.47	3.80	4.57

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

4. CEMENT PROGRAM:

Surface Interval

Interval Surface (TOC:	Amount sx 0' - 400')	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 400' (125% Excess)	190	400'	Premium Plus Cement: 1 % Calcium Chloride - Flake	6.36	14.8	1.34	1608 psi

Production Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (T	OC: 0' - 5100	')					
Lead: 0' - 3200' (98 % Excess)	420	3200'	Interfill C: 0.4% HR-800, 0.25% D-AIR 5000	14.34	11.9	2.48	327 psi
Tail: 3200' – 5100' (98 % Excess)	440	1900'	Premium Plus Cement: 0.5% Halad ®-344, 0.2% WellLife 734, 5 lbm/sk Microbond, 0.3% Econolite, 0.3% CFR-3	7.72	14.2	1.55	1914 psi

Description of Cement Additives: Calcium Chloride – Flake (Accelerator), HR-800 (Retarder), D-Air 5000 (Defoamer), Halad ®-344 (Low Fluid Loss Control), WellLife 734 (Cement Enhancer), Microbond (Expander), Econolite (Light Weight Additive), CFR-3 (Dispersant)

If a caliper log is run, cement volumes will be adjusted to caliper volume + 35% excess for the production hole.

5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 400' None.

Production: 0 - 5100' the minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi. Operator will be using an 11" 3M two ram stack with 3M annular preventer, & 3M Choke Manifold.

- **a.** The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 8 5/8" surface casing and the 8 5/8" SOW x 11" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.
- **b.** The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" surface casing. All equipment will be tested to 250/3000 psi for 10 minutes and charted, except the annular, which will be tested to 70% of working pressure. This is to be in compliance with the Onshore Order # 2 which states the BOPE shall be tested to 70% of the yield of the casing when the BOP and casing are not isolated.
- c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3" choke line having a 3000 psi WP rating. Oxy requests that the system be tested at 3,000 psi.

d. Oxy requests a variance if Savanna 415 is used to drill this well to use a co-flex line between the BOP and choke manifold. See attached schematic.

Manufacturer: Hebei Ouya Ltd.

Serial Number: 1642343-04

Length: <u>39</u>" Size: <u>3</u>" Ends: <u>flanges</u>

WP rating: 3000 psi Anchors required by manufacturer: No

e. See attached BOP & Choke manifold diagrams.

6. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 - 400'	8.4 - 8.8	27 - 38	NC	Fresh Water / Spud Mud
400' – TD	9.6 - 10	28 - 40	10 - 20	Brine Water / Salt Gel

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- **a.** A Kelly cock will be in the drill string at all times.
- **b.** A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. <u>If Hydrogen Sulfide is encountered</u>, measured amounts and formations will be reported to the BLM

8. LOGGING / CORING AND TESTING PROGRAM:

A. Mud Logger: Log from 3000' to TD.

B. DST's: None.

C. Cased Hole Logs as follows: Gamma Ray / Neutron from surface casing to TD.

9. POTENTIAL HAZARDS:

- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The bottomhole pressure is anticipated to be 2545 psi.
- C. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.50 psi/ft.** All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 15 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. COMPANY PERSONNEL:

Name	Title	Office Phone
Anthony Tschacher	Drilling Engineer	713-985-6949
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950
Roger Allen	Drilling Superintendent	713-215-7617
Douglas Chester	Drilling Manager	713-366-5194