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<u>District 1</u> 1625 N. French Dr., Hobbs, N. Phâne: (375) 393-6161 Fax: (2 District II 811.5. First SL, Artecia, NM 8 Phone: (535) 748-1283 Fax: (2 <u>District III</u> 1000 Rio Branos Road, Aizee, Phone: (505) 34-6178 Fax: (2 <u>District IV</u> 1220 S. SL Francis Dr., Sana Phone: (505) 476-3460 Fax: (2)	(75) 393-0720 8210 835) 748-9720 NM 87410 605) 334-6170 Fe, NM 87505 605) 476-3462	1	erals & 1 CONSE 220 Sou Santa	Natura RVA1 uth St. Fe, N	TION DIV Francis I M 87505	TSION Dr.		Submit o	one copy	Form C-102 August 1, 2011 7 to appropriate District Office DED REPORT
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19auc	3			Operator USA	Name WTP LP					Elevation 568.4'
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UL or lot no. Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
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APD DATA - DRILLING PLAN -

OPERATOR NAME / NUMBER: <u>OXY USA WTP LP</u>

16696

LEASE NAME / NUMBER: <u>Tigger 9 State # 8</u>

STATE: <u>NM</u> COUNTY: <u>Eddy</u>

SURFACE LOCATION: <u>2260' FSL & 925' FEL, Lot I, Sec 9, T17S, R29E</u>

C-102 PLAT APPROX GR ELEV: 3568'

EST KB ELEV: <u>3582' (14' KB)</u>

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	380	Fresh Water
Yates	882	-
Queen	1736	
Grayburg	2165	Oil
San Andres	2438	Oil/Water
Glorietta	3887	Oil
Paddock	3951	Oil
Blinebry	4351	Oil
Tubb – Base of Yeso	5368	Oil
TD	5300	TD

A. Fresh Water formation is outcropping and will be covered with the 16" conductor pipe, which will be set at 80' prior to spud.

GREATEST PROJECTED TD 5300' MD / 5300' TVD OBJECTIVE: Yeso

3. CASING PROGRAM (All casing is in NEW condition)

Surface Casing: 11 ³/₄" casing set at ± 450' MD/ 450' TVD in a 14 ³/₄" hole filled with 8.40 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 450'	450'	42	H-40	ST&C	1070	1980	307	11.084	10.928	7.06	5.34	18.64

Intermediate Casing: 8 5/8" casing set at ± 1100"MD / 1100 TVD in a 10 5/8" hole filled with 9.6 ppg mud

-{						Coll	Burst						
- {						Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
· [Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
	0'- 1100'	1100'	32	J-55	LT&C	2530	3930	417	7.921	7.875 SD	5.76	1.86	13.88

					Coll	Burst						
]		Ì			Rating	Rating	Jt Str	· ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'- 5300'	5300'	17	J-55	LT&C	4910	5320	247	4.892	4.767	1.86	2.51	3.21

Production Casing: 5.5" casing set at ± 5300"MD / 5300"TVD in a 7 7/8" hole filled with 9.6 ppg mud

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

4. CEMENT PROGRAM:

Surface Interval

Interval Surface (TOC:	Amount <u> sx</u> 0' - 450')	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 450' (210% Excess)	450	450'	Premium Plus Cement: 2% Calcium Chloride	6.39	14.80	1.35	1726 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (ТОС: 0' - 1	100')					
Lead: 0' - 614' (150 % Excess)	110	614'	liburton Light Premium Plus: m/sk Salt, 2% Econolite	11.7	12.5	2.10	715 psi
Tail: 614' - 1100' 150 % Excess)	200	486	mium Plus: Calcium Chloride	6.39	14.8	1.35	2500 psi

Production Interval

Interval	Amount • sx	Ft of Fill		Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (T	DC: 0' - 53	00')	ha	· · · · · · · · · · · · · · · · · · ·	L	L,	1	
Lead: 0' - 3000' (150 % Excess)	560	3000	Hall 5%	iburton Light Premium Plus: Salt	10.11	12.9	1.87	530 psi
Tail: 3000' - 5300' 150 % Excess)	860	2500	3%	0 Poz Premium Plus: Salt, 0.4% Halad ®-322, 0.125 lb/sx / E-Flake	5.64	14.5	1.24	980 psi

Description of cement additives: Calcium Chloride (Accelerator), Econolite (Light Weight Additive), Halad (R)-322 (Low Fluid Loss Control), Poly-E-Flake (Lost Circulation Additive)

5. PRESSURE CONTROL EQUIPMENT

Surface: <u>0' - 450</u>' None.

Intermediate: 0' - 1100' 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.

- **a.** The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 11 ¾" surface casing and the 11 ¾" SOW x 13 5/8" 3K conventional wellhead.
- b. The BOP and ancillary BOPE will be tested by a third party upon installation to the 11 ¾" H-40 42 ppf surface casing. All equipment will be tested to 250/1386 psi for 10 minutes (70% of surface casing burst).
- 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.
- **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.

Manufacturer. <u>Heber Odya Ltd</u>

Serial Number: <u>1642343-04</u>

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

WP rating: <u>3000 psi</u> Anchors required by manufacturer; No

e. See attached BOP & Choke manifold diagrams.

Production: 0' - 5300' 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.

- f. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 8 5/8" surface casing and the 13 5/8" X 11" 3K section B wellhead.
- **g.** The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" 32# J-55 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.
- h. 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.
- i. See attached BOP & Choke manifold diagrams.

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 - 450'	8.4 - 8.9	32 - 34	NC	Fresh Water /Spud Mud
450' - 1100'	9.6 - 10.0	28-40	NC ·	Brine Water
1100' - 5300'	9.6 - 10.0	28 - 40	10-20	Fresh Water /Spud Mud

6. MUD PROGRAM:

<u>Remarks:</u> 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.

8. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: From depth of 2000' to TD.
- B. DST's: None.
- C. Open Hole Logs as follows: Triple combo for production section.

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 2645 psi.
- C. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is 0.5 psi. 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.

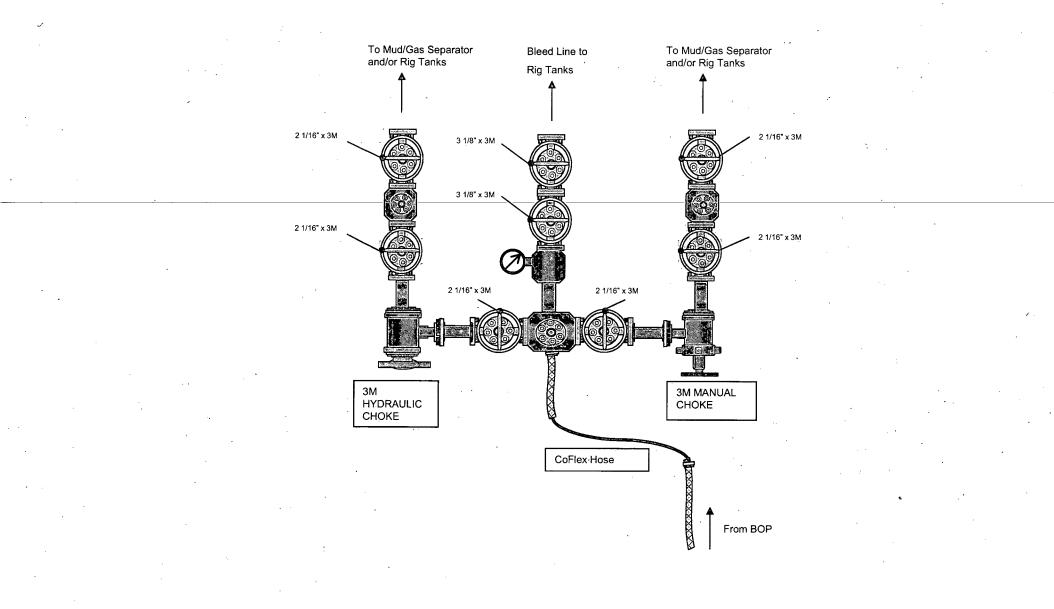
10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

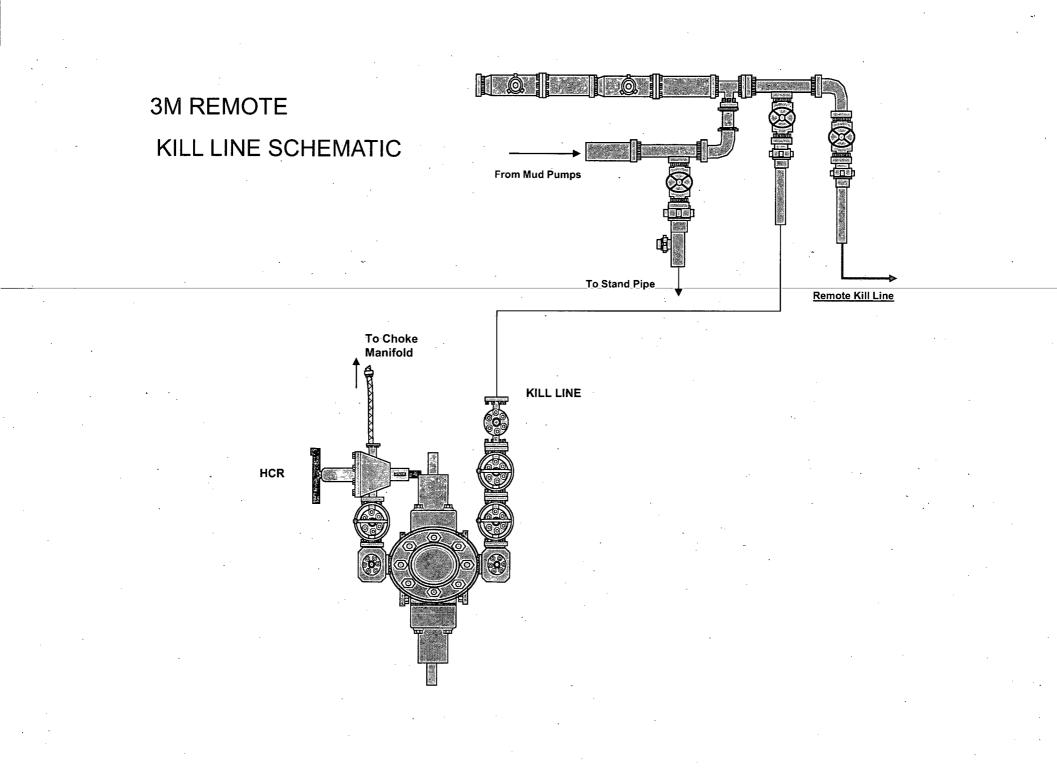
Road and location construction will begin after the NMOCD has approved the APD. Anticipated spud date will be as soon as possible after NMOCD approval and as soon as a rig will be available. Move in operations and drilling is expected to take 15 days. If production casing is run, then an additional 30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

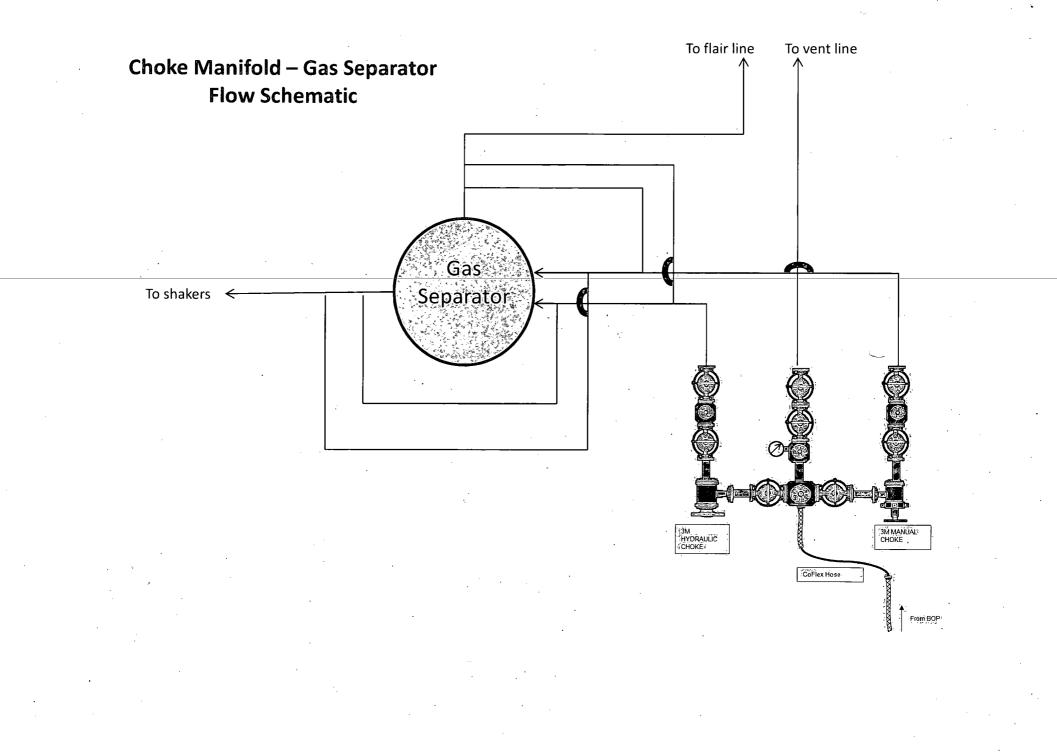
11. COMPANY PERSONNEL:

Name	<u>Title</u>	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

3M CHOKE MANIFOLD CONFIGURATION







MAULSUND

9727 47th Ave Edmonton, AB T6E 5M7 780-437-2630

Certificate of Compliance

2011-12-01 Date: REDL-SLIM-48x39IN-FIG1502 Item Desc: 1642343-04 Asset #: NOCHIPID Chip ID: Commercial Solutions INC (103867) Owner:

Model Date of Mfr

Date Installed Locn Desc

Inside Dia

Coupling B

EndUser Ref #

Notes

Length

Initial Location: Site\2714 5 ST

Test#

Default Hose Certification Test Notes

Continuity Test Results Continuity Ohm Reading Certification Result Generate Alert? Comments TimeStamp

25

Witnessed by: Ben Ahlskog

PASS

Tested by: Dave Penner

Hose passed all visual and physical inspections. N/A

2011-12-01 12:54:14 -07:00

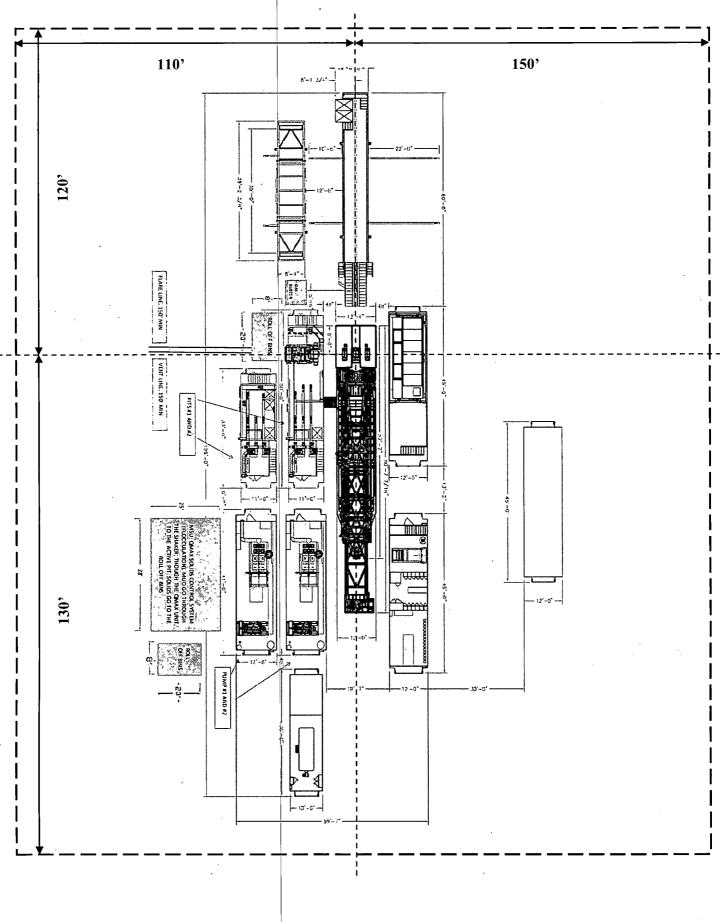
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Item Attributes: Serial Number Manufacturer 1642343-04 HEBEI OUYA LTD Application Group SLIMHOLE REDL-SLIMHOLE-3000-48 2011-12-01 3 IN 39 IN Working Pressure Test Pressure 3000 PSI 4500 PSI Coupling A Attach Method A 948HX+48B/FIG1502-HU-48 Swaged GEORGE MYER/KEMPER REBUILT Coupling A Model 948HX+48B/FIG1502-HU-48 Attach Method B Swaged GEORGE MYER/KEMPER REBUILT 1642343-04 Coupling B Model Distributor Ref # Factory Ref #

BUILT ON POUJON



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