ఀౚౣౣఀఀౚ	hod	Field Of	ffice			MIN	F
Form 3160-3 (March 2012)	DCD	Hobbs	CCD	FORM OMB N Expires C	APPROVED Io. 1004-0137 October 31, 201	JURF	F
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	INTERIOR AGEMENT DRILL OF	JUN 272	2018	5. Lease Serial No. NMNM069376 6. If Indian, Allotee	or Tribe Na	ame	
		RECE	VED	7 If Unit or CA Agre	ement, Nam	e and No.	
Ib. Type of Well: Oil Well Gas Well Other	_K	ingle Zone 🔽 Multip	ole Zone	8. Lease Name and TACO CAT 27-34	Well No.CC	52/6/3) CO 11H	
2. Name of Operator OXY USA INCORPORATED	96)			9. API Well No. 30-025 -	449	33	
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 770	3b. Phone No (713)366-). (include area code) 5716	,	10. Field and Pool, or I RED TANK BONE	Exploratory SPRING /	(51683) NST BONE	
 Location of Well (Report location clearly and in accordance with an At surface NWNW / 260 FNL / 855 FWL / LAT 32.36920 At proposed prod. zone SWSW / 180 FSL / 940 FWL / LAT 	ry State requiren 63 / LONG 32.341384	nents.*) -103.6683445 8 / LONG -103.668()424	11. Sec., T. R. M. or B SEC 27 / T22S / R	lk. and Surve 32E / NMF	ey or Area	
14. Distance in miles and direction from nearest town or post office* 26 miles	·····.	·····		12. County or Parish LEA	1	3. State NM	
 15. Distance from proposed* location to nearest 50 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of a 320	acres in lease	17. Spacin 320	g Unit dedicated to this v	well		
 Distance from proposed location* to nearest well, drilling, completed, 35 feet applied for, on this lease, ft. 	19. Propose 9530 feet	d Depth / 19684 feet	20. BLM/ FED: ES	BIA Bond No. on file SB000226			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3636 feet	22. Approxi 11/09/201	imate date work will sta 18	rt*	23. Estimated duration 20 days	n 	·	
· · · · · · · · · · · · · · · · · · ·	24. Atta	chments					
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	re Oil and Gas Lands, the	 Order No.1, must be at 4. Bond to cover the stress of the stress of	ttached to th he operatio cation specific info	is form: ns unless covered by an ormation and/or plans as	existing bor	nd on file (see uired by the	
25. Signature (Electronic Submission) Title	Name Davi	(Printed/Typed) d Stewart / Ph: (713	366-571	6	Date 03/21/20	018	
Approved by (Signature) (Electronic Submission)	Name Cody	: (Printed/Typed) Layton / Ph: (575)2	234-5959		Date 06/15/20	018	
Supervisor Multiple Resources Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	Office CAR is legal or equi	e LSBAD itable title to those righ	ts in the sub	oject lease which would e	ntitle the ap	plicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any p to any matter v	person knowingly and within its jurisdiction.	villfully to n	nake to any department o	or agency of	the United	

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

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Additional Operator Remarks

Location of Well

SHL: NWNW / 260 FNL / 855 FWL / TWSP: 22S / RANGE: 32E / SECTION: 27 / LAT: 32.3692063 / LONG: -103.6683445 (TVD: 0 feet, MD: 0 feet)
 PPP: SWSW / 1290 FSL / 940 FWL / TWSP: 22S / RANGE: 32E / SECTION: 34 / LAT: 32.44435 / LONG: -103.668045 (TVD: 9530 feet, MD: 18783 feet)
 PPP: NWNW / 25 FNL / 940 FWL / TWSP: 22S / RANGE: 32E / SECTION: 34 / LAT: 32.355335 / LONG: -103.668066 (TVD: 9530 feet, MD: 14818 feet)
 PPP: NWNW / 340 FNL / 940 FWL / TWSP: 22S / RANGE: 32E / SECTION: 27 / LAT: 32.3689877 / LONG: -103.668069 (TVD: 9530 feet, MD: 9874 feet)
 BHL: SWSW / 180 FSL / 940 FWL / TWSP: 22S / RANGE: 32E / SECTION: 34 / LAT: 32.3413848 / LONG: -103.6680424 (TVD: 9530 feet, MD: 19684 feet)

BLM Point of Contact

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: 5752345934 Email: pperez@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Approval Date: 06/15/2018

(Form 3160-3, page 4)

FAFMSS

APD ID: 10400028594

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Application Data Report

1.8

Submission Date: 03/21/2018

Operator Name: OXY USA INCORPORATED Well Name: TACO CAT 27-34 FEDERAL COM Well Type: OIL WELL

Well Number: 11H Well Work Type: Drill



Show Final Text

Section	1 -	General
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APD ID: 10400028594	Tie to previous NOS?	Submission Date: 03/21/2018
BLM Office: CARLSBAD	User: David Stewart	Title: Sr. Regulatory Advisor
Federal/Indian APD: FED	Is the first lease penetrated for	r production Federal or Indian? FED
Lease number: NMNM069376	Lease Acres: 320	
Surface access agreement in plac	e? Allotted? Res	ervation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:	•	
Keep application confidential? NO)	
Permitting Agent? NO	APD Operator: OXY USA INCO	RPORATED
Operator letter of designation:		

Operator Info

Operator Organization Name: (DXY USA INCORPO	RATED
Operator Address: 5 Greenway	Plaza, Suite 110	7: 77040
Operator PO Box:		Zip: 77046
Operator City: Houston	State: TX	
Operator Phone: (713)366-5716	3	
Operator Internet Address:		
Section 2 - Wel	I Information	
Well in Master Development Pla	In? NO	Mater Development Plan name:
Well in Master SUPO? NO		Master SUPO name:

Well in Master Drilling Plan? NO Well Name: TACO CAT 27-34 FEDERAL COM Field/Pool or Exploratory? Field and Pool Master Drilling Plan name: Well Number: 11H Wel

Well API Number:

Field Name: RED TANK BONEPool Name: 1ST BONESPRINGSPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Describe o	ther minerals:		.ă		
is the prop	osed well in a Helium product	ion area? N	Use Existing Well Pac	1? NO	New surface disturbance?
Type of We	ell Pad: MULTIPLE WELL		Multiple Well Pad Nar	ne: TACO	Number: 11H
Well Class	: HORIZONTAL		CAT 27-34 FEDERAL Number of Legs:	COM	· .
Well Work	Type: Drill				
Well Type:	OIL WELL				
Describe W	Vell Type:				
Well sub-T	ype: INFILL				
Describe s	ub-type:			·	
Distance to	town: 26 Miles D	istance to ne	arest well: 35 FT	Distanc	e to lease line: 50 FT
Reservoir	well spacing assigned acres N	leasurement	320 Acres		
Well plat:	TacoCat27_34FdCom11H_C	102_2018032	0100941.pdf		
	TacoCat27_34FdCom11H_S	itePlan_20180	0320100952.pdf		
Well work s	start Date: 11/09/2018		Duration: 20 DAYS		

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	DVT
SHL Leg #1	260	FNL	855	FWL	22S	32E	27	Aliquot NWN W	32.36920 63	- 103.6683 445	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 069376	363 6	0	0
KOP Leg #1	50	FNL	940	FWL	22S	32E	27	Aliquot NWN W	32.36978 49	- 103.6680 698	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 069376	- 532 1	897 ⁻ 4	895 7
PPP Leg #1	340	FNL	940	FWL	22S	32E	27	Aliquot NWN W	32.36898 77	- 103.6680 69	ĹEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 069376	- 589 4	987 4	953 0

Page 2 of 3

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Vertical Datum: NAVD88



AFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400028594

Operator Name: OXY USA INCORPORATED

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Submission Date: 03/21/2018



06/18/2018

Drilling Plan Data Report

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
D P	Formation Name	Elevation	Depth 🐳	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3636	816	816	SHALE,DOLOMITE,ANH YDRITE	USEABLE WATER	No
2	SALADO	2324	1312	1312	SHALE,DOLOMITE,HAL ITE,ANHYDRITE	OTHER : SALT	No
3	CASTILE	504	3132	3132	ANHYDRITE	OTHER : salt	No
4	LAMAR	-1062	4698	4698	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL,OTHER : BRINE	No
5	BELL CANYON	-1109	4745	4745	SANDSTONE, SILTSTO NE	NATURAL GAS,OIL,OTHER : BRINE	No
6	CHERRY CANYON	-1989	5625	5625	SANDSTONE,SILTSTO NE	NATURAL GAS,OIL,OTHER : BRINE	No
7	BRUSHY CANYON	-3229	6865	6865	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL,OTHER : BRINE	No
8 .	BONE SPRING	-4948	8584	8600	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING 1ST	-5914	9550	9874	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9530

Equipment: 13-5/8" 5M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. A multibowl wellhead or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system will be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange.

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Choke Diagram Attachment:

TacoCat27_34FdCom11H_ChkManifold_20180320105956.pdf

BOP Diagram Attachment:

TacoCat27_34FdCom11H_BOP_20180320110014.pdf

TacoCat27_34FdCom11H_FlexHoseCert_20180320110026.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	866	0	866			866	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	8874	0	8857			8874	L-80	43.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	19634	0	9530			19634	P- 110	20	OTHER - DQX	1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

TacoCat27_34FdCom11H_CsgCriteria_20180320110145.pdf

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Casing Attachments

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

TacoCat27_34FdCom11H_CsgCriteria_20180320110221.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

TacoCat27_34FdCom11H_CsgCriteria_20180320110300.pdf

TacoCat27_34FdCom11H_5.5_20_P110_DQX_20180320110311.pdf

Section	4 - C	emen	ַ	.:								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%		Cement type	Additives
SURFACE	Lead		0	866	1037	1.33	14.8	1379	100	CIC		Accelerator

INTERMEDIATE	Lead	6365	0	6365	3661	1.67	13.6	6114	200	CIC	Accelerator, Retarder

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		6265	7874	235	2.58	10.2	606	20	Pozzolan/C	Retarder
INTERMEDIATE	Tail		7874	8874	247	1.61	13.2	398	20	СІН	Retarder, Dispersant, Salt
PRODUCTION	Lead		8374	1963 4	2260	1.38	13.2	3119	20	СІН	Retarder, Dispersant, Salt

Section 5 - Circulating Medium

Mud System Type: Closed

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Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CaCl2.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	На	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
866	8874	OTHER : Water- Based and/or Oil-Based Mud	9	9.6							
0	866	WATER-BASED MUD	8.6	8.8							
8874	1963 4	OIL-BASED MUD	9	9.6			•				

Well Name: TACO CAT 27-34 FEDERAL COM

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole). Mud Log from surface shoe to TD.

List of open and cased hole logs run in the well: GR,MUDLOG

Coring operation description for the well: No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4758

Anticipated Surface Pressure: 2661.4

Anticipated Bottom Hole Temperature(F): 157

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

TacoCat27_34FdCom11H_H2S1_20180320114153.pdf TacoCat27_34FdCom11H_H2S2_20180320114202.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

TacoCat27_34FdCom11H_DirectPlan_20180320114219.pdf

TacoCat27_34FdCom11H_DirectPlot_20180320114231.pdf

Other proposed operations facets description:

OXY requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool will be run in case a contingency second stage is required for cement to reach surface. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

Well will be drilled with a walking/skidding operation. Plan to drill the three well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.

OXY requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that OXY would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

TacoCat27_34FdCom11H_DrillPlan_20180320114425.pdf TacoCat27_34FdCom11H_SpudRigData_20180320114436.pdf

Other Variance attachment:

5M Choke Panel



4" Choke Manifold Valve
 4" Choke Manifold Valve
 3" Choke Manifold Valve
 PC – Power Choke
 3" Choke Manifold Valve
 10.3" Choke Manifold Valve
 11. Choke Manifold Valve
 12. MC – Manual Choke
 18. Choke Manifold Valve
 21. Vertical Choke Manifold Valve

*All Valves 3" minimum

4









5M BOP Stack

Mud Cross Valves:

- 5. 5M Check Valve
- 6. Outside 5M Kill Line Valve
- 7. Inside 5M Kill Line
- 8. Outside 5M Kill Line Valve
- 9. 5M HCR Valve
- *Minimum ID = 2-1/16" on Kill Line side and 3" minimum ID on choke line side

To Kill

Line

ROTATING Fill Line 5000 DERAMOUER 5,000 psi Ueper Pipe Ram 5/88(ID)) 5.000 per BlindeRann To Co-Flex and **Choke Manifold** PIPE 0 ps Lover Pide (READ) SPOOL

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Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. I	No:	746					
PURC	HASER:		Phoenbx	Bea	ttie C	0.			P.O. Nº	C	02491	
CONT	MECH OR	der Nº:	412638		HOSE	E TYPE:	3"	D	Ch	oke and K	ill Hose	
HOBE	SERIAL	N°:	52777		NOM	INAL / AC	TUAL LI	ength:		10,67 m	I	
W.P.	68,96	MPa 1	0000	psi	Т.Р.	103,4	MPa	1500	0 psi	Duration:	60 ~	min.
Press ambie	Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min.											
	معلوفا التبالي وفر عمي	وفكك ويعديهم فالمناط	an - 20 42 - 19			COUP	LINGS	- Chines per				
	Ту	rpe			Sertal	N°		(Quality		Heat N	9
	3° coupi	ling with		917		913		AIS	61 4130		T7998/	Ą
	4 1/16" i	Flange end						AIS	il 4130		26984	
INF	INFOCHIP INSTALLED API Spec 16 C Temperature rate:"B"											
WE CE PRE88	RTIFY TH URE TEST	AT THE ABON TED AS ABOV	e hose h E with sat	as be Dsfa	EN MA	NUFACTU RESULT.	red in	ACCORE	ANCE W	ith the ter	ins of the o	rder and
Date:			Inspecto	1	, 1997, 19		Qualit	y Contro	h			
04. April. 2008					۲ 							

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Coflex Hose Certification

Form No 100/12

🛥 Phoenix Beattie

Phoenix Beattie Corp LISS Brithmore Park Drive Hauston, TX 77041 Tel: (832) 327-0148 Fas: (832) 327-0148 Fas: (832) 327-0148 E-saril an18phoenizbeattie.com use.phoenisbeattie.com

Delivery Note

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Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Addre HELMERICH & PAYNE INT'L 1437 SOUTH BOULDER TULSA. OK 74119	es Drilling CO	Delivery / Address Helherich & Payne IDC Attn: Joe Stephenson - Rig 13609 Industrial Road Houston, TX 77015	§ 370		

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattle Reference	Date
H01	JJL .	006330	05/23/2008

ltem No	Beattle Part Number / Description	Qty Ordered	Oty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 68X Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 68X Flange C/W BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C]	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

All goods remain the property of Phoenix Besttie until peid for in full. Any damage or shortage on this delivery must be edvised within 5 days. Resume may be subject to a handling charge. - PHOENIX Beattie

Form No 100/12

Phoenix Beattle Corp 11555 Britacore Park Drive Hauston, TX 77941 Tel: (632) 327-0140 Fest: (632) 327-0140 E-enfl antilphoenizdesttio.com ven.phoenizdesttis.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2	
Customer / Invoice Addres HELMERICH & PAYNE INT'L I 1437 SOUTH BOULDER TULSA, OK 74119	se Drilling Co	Delivery / Address Helmerich & Payne IDC Attn: Joe Stephenson - Rig 13609 Industrial RDAD Houston, TX 77015	3 370			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattle Reference	Date
HOI	JJL	006330	05/23/2008

ltem No	Beattie Part Number / Description	Qty Ordered	Oty Sent	Oty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	OOCERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	OOFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERHORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	n Da		0
]		Har A.W.		
	Phoenix Beattle Inspection Signature :	WINNER	Wije	
	Received in Good Condition : Signature	F1	\mathcal{H}	
	Print Name		Y	
	Data			

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortege on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

PHOENIX Beattie Material Identification Certificate										
PA No 006	330 Client HE	LMERICH & PA	YNE INT'L DRILLING	CBent	Ref 37	70-369-001			Page	1
Part No	Description	Material Desc	Material Spec	Qty	WO No	Betch No	Test Cert No	Bin No	Drg No	Issue No
HP10003A-35-4F1	3" 10K 16C CHK HOSE × 3571 CAL			1	2491	62777 M884		WATER		
SECK3-HPF3	LIFTING & SAFETY EQUIPHENT TO			1	2440	002440		N/STK		
SC726-200C5	SAFETY CLAMP 200MH 7.25T	CARBON STEEL	·	1	2519	HEES		220		
50725-13205	SAFETY CLANP 132001 7.26T	CARBON STEEL		1	2242	H139		22		
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We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattle Corporation.

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Coflex Hose Certification

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Coflex Hose Certification



Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier: CONTITECH RUBBER INDUSTRIAL KFT.Equipment: 6 pcs. Choke and Kill Hose with installed couplingsType :3" x 10,67 m WP: 10000 psiSupplier File Number: 412638Date of Shipment: April. 2008Customer: Phoenix Beattle Co.Customer P:o.: 002491Referenced Standards/ Codes / Specifications :API Spec 16 CSerial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed

Position: Q.C. Manager

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Date: 04. April. 2008

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

- 1) Casing Design Assumptions
 - a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

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CSG Test (Production)

- o Internal:
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- For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
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Gas Column (Surface)

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- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
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- **b)** Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- o External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- o Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.
- c) Tension Loads

Running Casing (Surface / Intermediate / Production)

• Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

o Axial: Buoyant weight of the string plus cement plug bump pressure load.

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PERFORMANCE DATA

TMK UP DQX Technical Data Sheet

5.500 in

20.00 lbs/ft

Minimum Yield

Yield Load

Tensile Load

Minimum Tensile

Collapse Pressure

Min. Internal Yield Pressure

P-110

110,000

125,000

641,000

729,000

12,600

11,100

psi

psi

lbs

lbs

psi

psi

Tubular Parameters

Size	5.500	in
Nominal Weight	20.00	lbs/ft
Grade	P-110	
PE Weight	19.81	lbs/ft
Wall Thickness	0.361	in
Nominal ID	4.778	in
Drift Diameter	4.653	in
Nom. Pipe Body Area	5 828	in²

Connection Parameters

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.122	in
Critical Section Area	5 828	in²
Tension Efficiency	100 0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi
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Make-Up Torques

Min. Make-Up Torque	11,600	ft-lbs
Opt. Make-Up Torque	12,900	ft-lbs
Max. Make-Up Torque	14,100	ft-lbs
Yield Torque	20,600	ft-lbs

Printed on: July-29-2014

NOTE:

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TECHNICAL DATA SHEET TMK UP DQX 5.5 X 20 P110

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	5.500	PE Weight, (ibs/ft)	19.81
Wall Thickness, (inch)	0.361	Nominal Weight, (lbs/ft)	20.00
Pipe Grade	P110	Nominal ID, (inch)	4.778
Coupling	Regular	Drift Diameter, (inch)	4.653
Coupling Grade	P110	Nominal Pipe Body Area, (sq inch)	5 828
Drift	Standard	Yield Strength in Tension, (klbs)	641
		Min. Internal Yield Pressure, (psi)	12 640
CONNECTION PARAMETERS		Collapse Pressure, (psi)	11 110
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778	interna Tressure	
Make-Up Loss, (inch)	4.122		1.1.5
Connection Critical Area, (sq inch)	5.828		
Yield Strength In Tension, (klbs)	641	100 Mar (0) (1)	X I =
Yeld Strength in Compression, (klbs)	641		
Tension Efficiency	100%	and the second second of the second	مت المترجد
Compression Efficiency	100%		
Min. Internal Yield Pressure, (psi)	12 640	والمسابقة والألصح فلا أسترجين والمحصاص فعطامه وعصاصا	
Collapse Pressure, (psi)	11 110	مستعد والمحدية والمحدية والمحصول ومراجع والمحصوص	
Uniaxial Bending (deg/100ft)	91.7		in the m
MAKE-UP TORQUES			
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Yield Torque, (ft-1b)	20 600
Minimum Make-Up Torque, (ft-lb)	11 600
Optimum Make-Up Torque, (ft-lb)	12 900
Maximum Make-Up Torque, (ft-lb)	14 100



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Coupling Length Wall Box Critical Cross Section Make-Up Loss F 8 G en di ci Drift Dlameter 활명 Pin Cross Section

NOTE: The content of this Technicsi Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. This information superseds all prior versions for this connection. Information thet is printed or downloaded is no longer controlled by TMK and might not be the tarts information that is printed or downloaded is no longer controlled by TMK and might not be the tarts information that is printed or downloaded is no longer controlled by TMK and might not be the tarts information that is printed or downloaded is no longer controlled by TMK and might not be the tarts information floates that that has a final information that is printed or downloaded is no longer controlled by TMK and might not be the tarts information floates that that has a final information that is printed or downloaded is no longer controlled by TMK and might not be the this information and parameters. This information with the information floates contact PAD 'TMK' Technical Sales in Russia (Tel +7 (495) 775 76 TK, Email: technical sales@imk insco.com)

Print date: 12/07/2017 18:09

OXY USA Inc. - Taco Cat 27-34 Federal Com 11H – Drill Plan

Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	# Sks	Wt.	Yld	H20	500# Comp. Strength	Slurry Description	
		(İb/gal)	(ft3/sack)	(gal/sk)	(hours)		
Surface	1037	14.8	1.33	6.365	6:50	Class C Cement, Accelerator	
Interne dista (1st Store)	235	10.2	2.58	11.568	15:07	Pozzolan Cement, Retarder	
Intermediate (Ist Stage)	247	13.2	1.61	7.804	12:57	Class H Cement, Retarder, Dispersant, Salt	
DV/ECP Tool @ 6365' (We request the option to cancel the second stage if cement is circulated to surface during the first stage of cement operations)							
Intermediate (2nd Stage)	3661	13.6	1.67	8.765	12:44	Class C Cement, Accelerator, Retarder	
Production	2260	13.2	1.38	6.686	15:15	Class H Cement, Retarder, Dispersant, Salt	

Casing String	Top of Lead (ft)	Bottom of Lead (ft)	Top of Tail (ft)	Bottom of Tail (ft)	% Excess Lead	% Excess Tail
Surface	N/A	N/A	0	866	N/A	100%
Intermediate (1st Stage)	6265	7874	7874	8874	20%	20%
Intermediate (2nd Stage)	N/A	N/A	0	6365	N/A	200%
Production	N/A	N/A	8374	19634	N/A	20%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре			Tested to:													
		5M	Annula	r	✓	70% of working pressure													
12.267 11-1-	12 5/0"		Blind Ra	ım	✓ 3														
12.25" Hole	13-3/8		21/1	21/1	SIM	SIM	5101	SIM	5171	5171	5111	5171	5111	21/1	21/1	Pipe Ram			250/5000
			Double Ram		1	250/5000psi													
			Other*																

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.						
A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.						
Y Are anchors required by manufacturer?						
A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.						
See attached schematics.						

5. Mud Program

Depth			Waight		
From (ft)	To (ft)	Туре	(ppg)	Viscosity	Water Loss
0	866	Water-Based Mud	8.6 - 8.8	40-60	N/C
866	8874	Water-Based Mud or Oil-Based Mud	9.0 - 9.6	35-50	N/C
8874	19634	Oil-Based Mud	9.0 - 9.6	35-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain	PVT/MD Totco/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Add	tional logs planned	Interval	
No	Resistivity		
No	Density		
No	CBL	· ·	
Yes	Mud log	ICP - TD	
No	PEX		

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4758 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	1 57 °F

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. 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.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present

Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes
• We plan to drill the three well pad in batch by section: all surface sections,	
intermediate sections and production sections. The wellhead will be	
secured with a night cap whenever the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
• OXY requests the option to contract a Surface Rig to drill, set surface	
casing, and cement for this well. If the timing between rigs is such that	
OXY would not be able to preset surface, the Primary Rig will MIRU and	(
drill the well in its entirety per the APD. Please see the attached document	
for information on the spudder rig.	

Total estimated cuttings volume: 2180.2 bbls.

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Philippe Haffner	Drilling Engineer	713-985-6379	832-767-9047
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: <u>OXY USA Inc</u>

1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - **a.** After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - **a.** The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - **b.** The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and
 to oversee operations.
- 8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400028594

Operator Name: OXY USA INCORPORATED Well Name: TACO CAT 27-34 FEDERAL COM Well Type: OIL WELL

Submission Date: 03/21/2018

E A

Row(s) Exist? NO

Well Number: 11H

后间 位于行行

06/18/2018

SUPO Data Report

Show Final Text

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

TacoCat27_34FdCom11H_ExistRoads_20180320114457.pdf

Existing Road Purpose: FLUID TRANSPORT

ROW ID(ş)

ID:

-. ... i.

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES								
New Road Map:								
TacoCat27_34FdCom11H_NewRoad_20180320114513.pdf								
New road type: LOCAL								
Length: 96 Feet Width (ft.): 25								
Max slope (%): 0 Max grade (%): 0								
Army Corp of Engineers (AC	OE) permit required? N	10						
ACOE Permit Number(s):								
New road travel width: 14								
New road access erosion control: Watershed Diversion every 200' if needed.								
New road access plan or pro	file prepared? YES							
New road access plan attach	ment:							
TacoCat27_34FdCom11H_Nev	wRoad_2018032011490	3.pdf						
Access road engineering des	sign? NO							

Page 1 of 11

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Access road engineering design attachment:

Access surfacing type: OTHER Access topsoil source: ONSITE Access surfacing type description: Caliche Access onsite topsoil source depth: 0 Offsite topsoil source description: Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information: The access road will run 56' east and 40' north through pasture to the southwest portion of the pad.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

TacoCat27_34FdCom11H_ExistWells_20180320114954.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: a. In the event the well is found productive, the Red Tank 27-28 Central Tank Battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram. b. All flow lines will adhere to API standards. They will consist of 6 - 4" composite flowlines operating 75% MAWP. Surface and 3-4" steel gas lines operating 1500psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 2827.9' in length crossing USA Land in Sections 27, T22S R31E, NMPM Lea County and being 15' left and 15' right of the centerline survey, see attached. Two 12" composite water line pipe operating 750 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 1026.1' in length crossing USA Land in Section 27, T22S R32E, NMPM Lea

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

County and being 15' left and 15' right of the centerline survey, see attached. c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 1303.2' in length crossing USA land in Sections 27, T22S R32E NMPM, Lea County, NM and being 15' left and 15' right of the centerline survey, see attached d. See attached for additional information on the Red Tank 27-28 Central Tank Battery.

Production Facilities map:

TacoCat27_34FdCom11H_FacilityPLEL_20180320115347.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, OTHER, SURFACE CASING Describe type:

Water source type: GW WELL

Source volume (acre-feet): 0.25778618

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER WELL

Source land ownership: COMMERCIAL

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000

Source volume (gal): 84000

Water source and transportation map:

TacoCat27_34FdCom11H_GRRWtrSrc_20180320115626.pdf TacoCat27_34FdCom11H_MesqWtrSrc_20180320115638.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? NO

New Wate	r Well	Info
----------	--------	------

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aqui	fer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside dian	neter (in.):
New water well casing?	Used casing source:	

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Drilling method: Grout material: Casing length (ft.): Well Production type: Water well additional information: State appropriation permit: Additional information attachment:

Drill material: Grout depth: Casing top depth (ft.): Completion Method:

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6" of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120' X 120' area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120' X 120' within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit located in Section 25 T23S R31E. Water will be provided from a frac pond located in Sections 26 T23S R31E.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Section 6 - Construction Materials

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 2538.1 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

TacoCat27_34FdCom11H_WellSiteCL_20180320120646.pdf

Comments: V-Door-East - CL Tanks-North - 330' X 470' - 3 Well Pad

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: TACO CAT 27-34 FEDERAL COM Multiple Well Pad Number: 11H

Recontouring attachment:

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance (acres): 3.56	Well pad interim reclamation (acres): 1.25	Well pad long term disturbance (acres): 2.31
Road proposed disturbance (acres): 0.07	Road interim reclamation (acres): 0.04	Road long term disturbance (acres): 0.03
Powerline proposed disturbance (acres): 0.9 Pipeline proposed disturbance	0.9 Pipeline interim reclamation (acres): 1 77	Powerline long term disturbance (acres): 0 Pipeline long term disturbance
(acres): 2.65 Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0.33	(acres): 0.88 Other long term disturbance (acres): 0
Total proposed disturbance: 7.18	Total interim reclamation: 4.29	Total long term disturbance: 3.22

Disturbance Comments: See Below

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances attachment:

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Non native seed used? NO Non native seed description: Seedling transplant description: Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:

Total pounds/Acre:

Last Name: WILSON

Email: jim_wilson@oxy.com

Seed Summary											
z			.*		2 -	-		1		+	
	Se	ec	11	V	pe			Ρ	ound	ls/Ac	re

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JIM

Phone: (575)631-2442

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

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Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

Existing invasive species treatment attachment: Weed treatment plan description: To be determined by the BLM. Weed treatment plan attachment: Monitoring plan description: To be determined by the BLM. Monitoring plan attachment: Success standards: To be determined by the BLM. Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Willtary Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: 4

Operator Name: OXY USA INCORPORATED Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Disturbance type: OTHER

Describe: Electric Line

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: TACO CAT 27-34 FEDERAL COM

.....

Well Number: 11H

Disturbance type: NEW ACCESS ROAD	•
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information: Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** NO

Previous Onsite information:

Other SUPO Attachment

TacoCat27_34FdCom11H_GasCapPlan_20180320121233.pdf TacoCat27_34FdCom11H_MiscSvyPlats_20180320121244.pdf TacoCat27_34FdCom11H_StakeForm_20180320121257.pdf TacoCat27_34FdCom11H_SUPO_20180320124216.pdf .



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data Repor

06/18/2018

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name:

Injection well API number:

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PWD disturbance (acres):

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PWD disturbance (acres):

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Bond Info Data Report



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location: PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: **Pit liner description:** Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

06/22/2018

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

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Bond Information

Federal/Indian APD: FED BLM Bond number: ESB000226 BIA Bond number: Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond a LM or Forest Service? BLM reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: Reclamation bond number: Reclamation bond amount: Reclamation bond rider amount: Additional reclamation bond information attachment:

Bond Info Data Report

06/22/2018

Well Name: TACO CAT 27-34 FEDERAL COM

Well Number: 11H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	DVT
PPP	25	FNL	940	FWL	22S	32E	34	Aliquot	32.35533	-	LEA	NEW	NEW	F	NMNM	-	148	953
Leg				}		}		NWN	5	103.6680		MEXI	MEXI		077060	589	18	0
#1			•	L				VV				<u> </u>	<u> </u>					
PPP	129	FSL	940	FWL	228	32E	34	Aliquot	32.44435	-	LEA	NEW	NEW	F	NMNM	-	187	953
Leg	0					}		sws		103.6680		MEXI	MEXI		134874	589	83	0
#1								W		45		CO	CO			4		
EXIT	340	FSL	940	FWL	22S	32E	34	Aliquot	32.34182	-	LEA	NEW	NEW	F	NMNM	-	194	953
Leg								sws	46	103.6680		MEXI	MEXI		134874	589	74	0
#1								W		429		co	co			4		
BHL	180	FSL	940	FWL	228	32E	34	Aliquot	32.34138	-	LEA	NEW	NEW	F	NMNM]-	196	953
Leg								sws	48	103.6680		MEXI	MEXI		134874	589	84	0
#1								Ŵ		424		co	co			4		

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Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: David Stewart

Signed on: 03/20/2018

Title: Sr. Regulatory Advisor

Street Address: 5 Greenway Plaza, Suite 110

State: TX

City: Houston

Phone: (713)366-5716

Email address: David_stewart@oxy.com

Field Representative

Representative Name: Jim Wilson

Street Address: 6001 Deauville

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ator Certification Data Report

06/18/2018

Zip: 79706