RECEIVED

Form 3160-3 (June 2015)	F	EB 2 1	2071			APPRO 10. 1004-0	
UNITED STATE	EMANRI	n-ncn		TESI			
DEPARTMENT OF THE I	NTERIOR		1 80		5. Lease Serial No.		
BUREAU OF LAND MANA	AGEMENT	Г			NMNM043744		
APPLICATION FOR PERMIT TO D	RILL OR	REENTER	1		6. If Indian, Alloted	e or Tribe	Name
					322249		
	EENTER				7. If Unit or CA Ag	greement,	Name and No.
	ther				8. Lease Name and	Well No.	
Ic. Type of Completion: Hydraulic Fracturing Si	ngle Zone	✓ Multiple Z	one		PLATINUM MDP ⁻ 12H	1 34-3 FI	EDERAL COM
2. Name of Operator OXY USA INCORPORATED					9. API Well No. 30 015 467		
3a. Address		lo. <i>(include ar</i>	ea cloa	le)	10. Field and Pool,	-	•
5 Greenway Plaza, Suite 110 Houston TX 77046	(713)366-5				COTTON DRAW	BONE S	PRING / 1ST B
4. Location of Well (<i>Report location clearly and in accordance w</i>	•	•	· /		11. Sec., T. R. M. o		•
At surface NENW / 160 FNL / 1790 FWL / LAT 32.267	7451 / LONG	G -103.76841	58		SEC 34 / T23S / F	(31E / N	MP
At proposed prod. zone SESW / 20 FSL / 2260 FWL / LA	T 32.23919	29 / LONG -1	03.76	69191			
14. Distance in miles and direction from nearest town or post offi 8 miles	ce*				12. County or Paris EDDY	sh	13. State NM
15. Distance from proposed* 20 feet	16. No of ac	cres in lease		17. Spaci	ng Unit dedicated to	this well	
property or lease line, ft. (Also to nearest drig. unit line, if any)	640			320			
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose 9358 feet /	-	7		BIA Bond No. in file B000226	•	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3421 feet	22. Approxi 09/01/2020	mate date wor	k will	start*	23. Estimated durat 20 days	tion	
	24. Attac	hments			<u> </u>		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Orde	r No.	l, and the H	lydraulic Fracturing	rule per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to co Item 20 at		e operation	s unless covered by a	n existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office)		5. Operator 6. Such other BLM.			mation and/or plans a	s may be r	equested by the
25. Signature	1	(Printed/Type				Date	
(Electronic Submission)	David	Stewart / Ph	: (713)366-5716) 	04/08/2	2019
Title Sr. Regulatory Advisor							
Approved by (Signature) (Electronic Submission)	1	(Printed/Type	· ·	004 5050		Date	2000
Title	Office	Layton / Ph: ((575)4	234-5959	<u> </u>	02/18/2	2020
Assistant Field Manager Lands & Minerals	CARL						
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	1	(le to tl	nose rights	in the subject lease w	vhich wou	ld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements c						any depai	tment or agency
						<u></u>	
				INVE			
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APPROVE

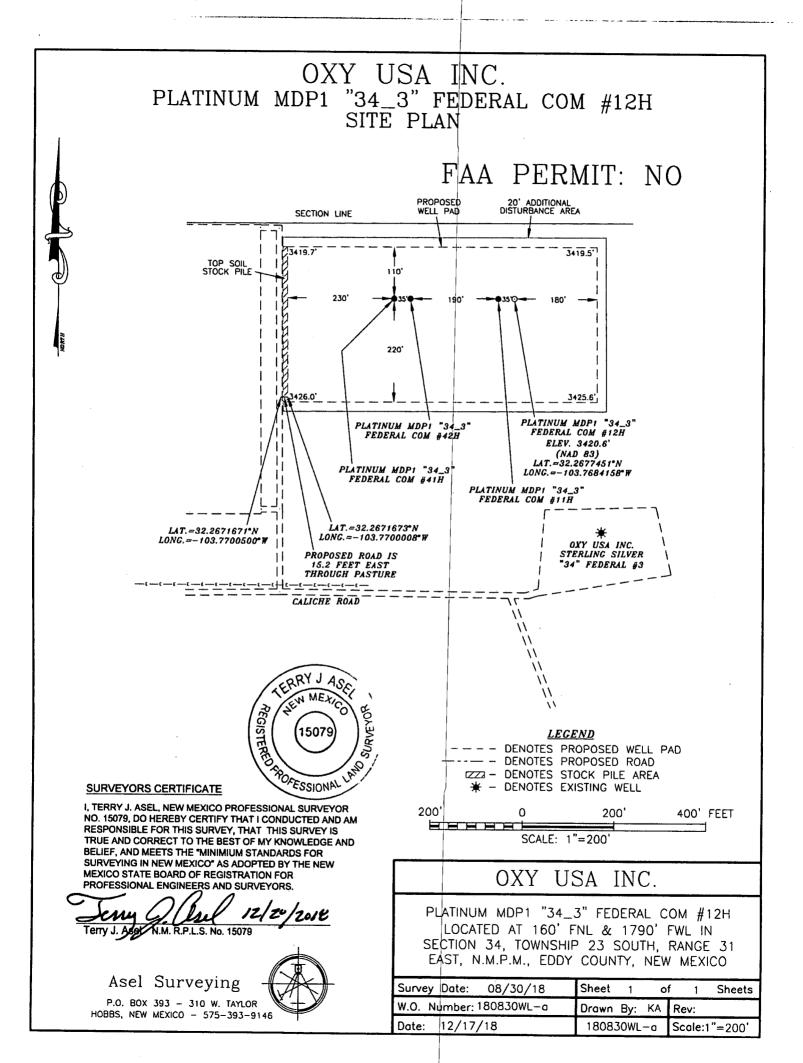
Approval Date: 02/18/2020

(Continued on page 2)

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*(Instructions on page 2)

KS 2.25-20





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

Operator Certification Data Report

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: 04/08/2019
Title: Sr. Regulatory Advisor		
Street Address: 5 Greenway Plaz	a, Suite 110	
City: Houston	State: TX	Zip: 77046
Phone: (713)366-5716		
Email address: david_stewart@o>	xy.com	
Field Representative		- -
Representative Name:		
Street Address: 6001 Deauville		
City: Midland	State: TX	Zip: 79706
Phone: (575)631-2442		
Email address: jim_wilson@oxy.c	om	

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

Application Data Report 02/19/2020 and the second se

هي ريغيسينية . ي.				
APD ID: 10400040619		Submis	sion Date: 04/08/20	19 Highlighted data
Operator Name: OXY USA INCORPORATED				reflects the most
Well Name: PLATINUM MDP1 34-3 FEDERAL	COM	Well Nu	umber: 12H	recent changes Show Final Text
Well Type: OIL WELL		Well Wo	ork Type: Drill	<u>onows man roze</u>
(<u> </u>	·
Section 1 - General				
APD ID: 10400040619		us NOS?	2	Submission Date: 04/08/20
BLM Office: CARLSBAD	User: David S			: Sr. Regulatory Advisor
Federal/Indian APD: FED				on Federal or Indian? FED
Lease number: NMNM043744	Lease Acres:			
Surface access agreement in place?	Allotted?		Reservation:	
Agreement in place? NO	Federal or Inc	dian agr		
Agreement number:		5		
Agreement name:				
Keep application confidential? NO				
Permitting Agent? NO	APD Operato		USA INCORPORATE	Ð
Operator letter of designation:	•			
		(
Operator Info				
Operator Organization Name: OXY USA INC	ORPORATED			
Operator Address: 5 Greenway Plaza, Suite 7	110		7in: 77046	
Operator PO Box:			Zip : 77046	
Operator City: Houston State: T.	х			
Operator Phone: (713)366-5716				
Operator Internet Address:				
Section 2 - Well Informati	on .			
Well in Master Development Plan? EXISTING	Mas	ter Deve	elopment Plan name	e: Sand Dunes Area
Well in Master SUPO? NO	Mas	ter SUP	PO name:	
Well in Master Drilling Plan? NO	Mas	ster Drill	ling Plan name:	
Well Name: PLATINUM MDP1 34-3 FEDERAL	COM Wel	I Numbe	er: 12H	Well API Number:
Field/Pool or Exploratory? Field and Pool			: COTTON DRAW	Pool Name: 1ST BONE
Is the proposed well in an area containing of		NE SPRI sources		SPRING

11 2200

																			_
Ope	rator	Nam	e: 0X		SA ING	CORF	ORA	TED											
Well	Nam	ne: PL	ATIN	IUM N	MDP1	34-3	FEDI	ERAL Ç	ОМ	Well N	umber	: 12H	•						
				-								<u> </u>							
s the	e pro	pose	d wel	ll in a	n are	a con	taini	ng othe	r mineral	resource	es? PO	TASH							
		-				-		tion are		se Existi	Ĩ				w surfa		turba	nce?	
• •						NELL				ultiple W LATINUM				Nu	imber: 1	1H			
well	Clas	s: HC	RIZC	DNIA	L					EDERAL umber of									
Well	Wor	к Тур	e: Dri	ill															
Well	Туре	: OIL	WEL	.L															
Desc	ribe	Well	Туре	:															
Well	sub-	Туре	: INFI	ILL															
Desc	ribe	sub-t	ype:																
Dista	ance	to tov	v n: 8	Miles	3		1	Distanc	e to near	est well:	35 FT	ł	Distan	ce t	o lease I	ine: 2	0 FT		
Rese	ervoi	r well	spac	ing a	issigr	ned a	cres	Measur	ement: 32	20 Acres									
Well	plat:	Ρ	latinu	ImMC)P1_3	4_3F	dCon	n12H_C	102_2019	0404152	401.pdf								
		Ρ	latinu	ımME)P1_3	4_3F	dCon	n12H_S	itePlan_20	01904041	52417.	pdf							
Well	worl	< star	t Date	e: 09/	01/20	20			D	uration:	20 DAY	′S							
	Se	ctior	13.	We		cati	on ⁻	Table											
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		Surve		pe:					V	ertical Da									
		umbe								eference									
			•• T	1		[[Datan	• 					<u> </u>		8
								5											oduc ?
		for		tor				t/Tra							mber				Will this well produce from this lease?
ore	oot	dica	oot	dica		υ	ы	ot/Lo	de	Itude	≩		lian	Type	e Nu	ation			his w this I
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	-ease Type	Lease Number	Elevation	QW	٩ ۲	Mill ti from
SHL		FNL	179	1		31E		Aliquot	32.26774	-	EDD	NEW	NEW		NMNM	342	0	0	
Leg #1			0	L				NENW	51 ·	103.768 158	4 Y	MEXI CO	MEXI CO		043744	1			
KOP	50	FNL	226	FW	235	31E	34	Aliquot	32.26804	1 1	EDD		NEW		NMNM	-	897	888	
Leg #1			0	L. 				NENW	81	103.766 952	8 Y	MEXI CO	MEXI CO		043744	546 4	2	5	
771	1	1	1		I	1	I	L		1			I			1	<u> </u>	<u> </u>	L

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT	Will this well produce from this lease?
PPP Leg	6	FNL	225 4	FW L	24S	31E		Aliquot NENW	32.25364 9	- 103.7669	EDD Y	MEXI	NEW MEXI	F	NMNM 055142	- 592		934 8	
#1-1										08		co	co			7			
PPP Leg	100	FNL	226 0	FW	23S	31E	34	Aliquot NENW	32.26791 07	- 103.7668	EDD		NEW MEXI	F	NMNM 043744	- 591	975 1	933 9	
#1-2			0					INEINVV		954		co	CO		040744	8	•	5	
EXIT Leg #1	100	FSL	226 0	FW L	24S	31E	3	Aliquot SESW	32.23941 28	- 103.7669 189	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055142	- 593 7	201 19	935 8	
BHL Leg #1	20	FSL	226 0	FW L	24S	31E	-	Aliquot SESW	32.23919 29	- 103.7669 191	EDD Y	1	NEW MEXI CO	F	NMNM 055142	- 593 7	201 99	935 8	

WAFMSS

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

Submission Date: 04/08/2019

Highlighted data reflects the most recent changes

02/19/2020

Drilling Plan Data Report

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Show Final Text

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

APD ID: 10400040619

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
433549	RUSTLER	3421	582	582	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
433550	SALADO	2511	910	910	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
433547	CASTILE	545	2876	-2876	ANHYDRITE	OTHER : SALT	N
433551	LAMAR	-906	4327	4330	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
433552	BELL CANYON	-931	4352	4355	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
433553	CHERRY CANYON	-1818	5239	5261	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
433554	BRUSHY CANYON	-3093	6514	6565	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
433548	BONE SPRING	-4739	8160	8242	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
433556	BONE SPRING 1ST	-5798	9219	9385	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9358

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 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. BOP Break Testing Request - As per the

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions: 1. After a full BOP test is conducted on the first well on the pad. 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp. 3. Full BOP test will be required prior to drilling any production hole.

Choke Diagram Attachment:

PlatinumMDP1_34_3FdCom12H_ChkManifold_20190404153953.pdf

BOP Diagram Attachment:

PlatinumMDP1_34_3FdCom12H_BOP_20190404154008.pdf

PlatinumMDP1_34_3FdCom12H_FlexHoseCert_20190404154036.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	Я	0	632	0	632			632	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4377	0	4374			4377	L-80	43.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
	INTERMED IATE	8.5	7.625	NEW	API	N	0	8872	0	8786			8872	HCL -80		OTHER - SF/FJ	1.12 5	1.2	BUOY	1.4	BUOY	1.4
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	20199	0	9358			20199	P- 110		OTHER - DQX/SFTO RQ	1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Operator Name: OXY USA INCORPORATED Well Name: PLATINUM MDP1 34-3 FEDERAL COM	Well	Number: 12H		
Casing Attachments				
Casing ID: 1 String Type:SURFACE Inspection Document:	1			Ü
Spec Document:				
Tapered String Spec:				
Casing Design Assumptions and Worksheet(s) PlatinumMDP1_34_3FdCom12H_CsgCriteria		112245.pdf		
Casing ID: 2 String Type:INTERME Inspection Document:	DIATE		· · · · · · · · · · · · · · · · · · ·	
Spec Document:				
Tapered String Spec:				
Casing Design Assumptions and Worksheet(s): PlatinumMDP1_34_3FdCom12H_CsgCriteria		112304.pdf		
Casing ID: 3 String Type:INTERME Inspection Document:	DIATE			
Spec Document:				
Tapered String Spec:				
Casing Design Assumptions and Worksheet(s) PlatinumMDP1_34_3FdCom12H_CsgCriteri		112333.pdf		
PlatinumMDP1_34_3FdCom12H_7.625_26. PlatinumMDP1_34_3FdCom12H_7.625_26.	4_HCL80_T	иКUPFJ_20190408112347.г		,
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 Operator Name: OXY USA INCORPORATED

 Well Name: PLATINUM MDP1 34-3 FEDERAL COM

 Well Number: 12H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PlatinumMDP1_34_3FdCom12H_CsgCriteria_20190408112448.pdf

PlatinumMDP1_34_3FdCom12H_5.5_20_P110_DQX_20190408112501.pdf

PlatinumMDP1_34_3FdCom12H_5.5_20_P110HC_TMKUPSFTORQ_20190408112515.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	632	672	1.33	14.8	894	100	CIC	Accelerator

INTERMEDIATE	Lead	0	3877	933	1.88	12.9	1754	50	Pozzolan/CI C	Retarder
INTERMEDIATE	Tail	3877	4377	155	1.33	14.8	206	20	СІС	Accelerator
INTERMEDIATE	Lead	0	8160	426	1.92	12.9	818	25	СІС	Accelerator
INTERMEDIATE	Tail	8160	8872	36	1.65	12.9	59	5	СІН	Retarder, Dispersant, Salt
PRODUCTION	Lead	8372	2019 9	867	1.38	13.2	1196	20	СІН	Retarder, Dispersant, Salt

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

Section 5 - Circulating Medium

Mud System Type: Closed

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)	Ha	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	632	WATER-BASED MUD	8.6	8.8							
632	4377	OTHER : Saturated Brine- based Mud	9.8	10							
4377	2019 9	OTHER : Water- based and/or Oil-based Mud	8	9.6							

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 intermediate 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.

J

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4672

Anticipated Surface Pressure: 2613.23

Anticipated Bottom Hole Temperature(F): 155

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:

PlatinumMDP1_34_3FdCom12H_H2S1_20190404154333.pdf PlatinumMDP1_34_3FdCom12H_H2S2_20190404154343.pdf PlatinumMDP1_34_3FdCom12H_EmergencyContactList_20190404154355.pdf.

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PlatinumMDP1_34_3FdCom12H_DirectPlan_20190404154417.pdf

PlatinumMDP1_34_3FdCom12H_DirectPlot_20190404154429pdf

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 may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

OXY requests the option to run the 7.625" Intermediate II as a contingency casing string to be run only if severe hole conditions dictate an additional casing string. The Intermediate II cement job will only occur if OXY elects to run a second intermediate casing string. See attached drill plan for the three string primary casing/cementing plan.

OXY requests the option to run production casing with DQX and/or SF TORQ connections to accommodate hole conditions or drilling operations.

OXY requests to pump a two stage Intermediate II or production casing cement job with the first stage being pumped conventionally with the calculated TOC @ the Bone Spring and the second stage performed as a bradenhead squeeze with planned cement from the top of the Bone Spring to Surface.

Annular Clearance Variance Request - As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.

2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Well will be drilled with a walking/skidding operation. Plan to drill the four well pad in batch by section: all

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 12H

1

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. See attached for additional spudder rig information.

Other proposed operations facets attachment:

PlatinumMDP1_34_3FdCom12H_DrillPlan_20190404154446.pdf

PlatinumMDP1_34_3FdCom12H_GasCapPlan_20190404154457.pdf

PlatinumMDP1_34_3FdCom12H_SpudRigData_20190404154508.pdf

Other Variance attachment:

OXY USA Inc. - Platinum MDP1 34-3 Federal Com 12H – Drill Plan

1. Geologic Formations

TV	D of target	9358'	Pilot Hole Depth	N/A
М	D at TD:	20199'	Deepest Expected fresh water:	582'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	582	Brine
Salado	910	Brine
Castile	2,876	Brine
Lamar/Delaware	4,327	Brine
Bell Canyon	4,352	Oil/Gas
Cherry Canyon	5,239	Oil/Gas
Brushy Canyon	6,514	Losses
Bone Spring	8,160	Oil/Gas
1st Bone Spring	9,219	Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Primary Plan:

									Buoyant	Buoyant
Hala Sime (i=)	Casing Interval		Csg. Size	Weight	Omda	Com	SF	SF Burst	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs) Grade	Conn.	Collapse	SF DUIST	Tension	Tension	
17.5	0	632	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4377	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	20199	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4

SF Values will meet or Exceed

Contingency Plan:

t south the	Casing	Interval	Csg. Size	Weight	Grade	Γ		SF		Body SF	Joint SH	
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)		Grade	Conn.	Conn.	Conn.	Collapse	SF Barst	Tension
17.5	0	632	13.375	54.5	J-55		BTC	1.125	1.2	1.4	1.4	
12.25	0	4377	9.625	43.5	L-80		BTC	1.125	1.2	1.4	1.4	
8.5	0	8872	7.625	26.4	L-80 HC		F (0 ft to 4000 ft) (4000 ft to 8872 ft)	1.125	1.2	1.4	1.4	
6.75	0	20199	5.5	20	P-110		DQX	1.125	1.2	1.4	1.4	
SF Values wi						s will meet o	or Exceed					

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to run the 7.625" Intermediate II as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary.

*Oxy requests the option to run production casing with DQX and/or SF TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

NE REPORT TO THE REPORT OF A PARTY OF A	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
	19
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
	19
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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
	· · · · · · · · · · · · · · · · · · ·
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?	
	L NT
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Primary Plan:

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/Å	N/A	N/A
Surface (Tail)	672	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	1014	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production 1st Stage (Lead)	287	13.2	1.38	6.692	17:50	Class H Cement, Retarder, Dispersant, Salt
Production 1st Stage (Tail)	2107	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt
and Stage Drochust	ion Load Shur	u to he numne	d as Bradenha	and Sameara f	rom surfage d	own the Production annulus

2nd Stage Production Lead Shurry to be pumped as Bradenhead Squeeze from surface, down the Production annulus.

Production 2nd Stage (Tail)	919	12.9	1.872	10,11	21:54	Class C Cement, Accelerator
				1		

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	632	100%
Intermediate (Lead)	0	3877	50%
Intermediate (Tail)	3877	4377	20%
Production 1st Stage (Lead)	6514	8160	5%
Production 1st Stage (Tail)	8160	20199	5%
Production 2nd Stage (Tail)	0	6514	25%

3 Drilling Plan

Contingency Plan:

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description					
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A					
Surface (Tail)	672	14.8	1.33	6.365	5:26	Class C Cement, Accelerator					
Intermediate (Lead)	933	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder					
Intermediate (Tail)	-155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator					
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	Ņ/A	N/A	N/A					
Intermediate II 1st Stage (Tail)	36	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt					
Intermediate II 2nd Stage	Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus										
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A					
Intermediate II 2nd Stage (Tail)	426	12.9	1.92	10.410	23:10	Class C Cement, Accelerator					
Production (Lead)	N/A	N/A	N/A .	N/A	N/A	N/A					
Production (Tail)	867	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt					

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	632	100%
Intermediate (Lead)	0	3877	50%
Intermediate (Tail)	3877	4377	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	8160	8872	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	0	8160	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	8372	20199	20%

*Contingency design will only be employed if Oxy elects to run 7.625" Intermediate II string.

4 Drilling Plan

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		Tested to:
		5M	Annular	~	70% of working pressure
12.25" Hole	13-5/8"		Blind Ram	✓	
	13-3/8	51	Pipe Ram		250/5000
		5M	Double Ram	~	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									
greate	r, a pressure integrity test of each casing shoe shall be performed. Will be tested in								
accord	lance with Onshore Oil and Gas Order #2 III.B.1.i.								
A vari	ance is requested for the use of a flexible choke line from the BOP to Choke								
Manif	old. See attached for specs and hydrostatic test chart.								
Y	Are anchors required by manufacturer?								
A mul	tibowl or a unionized multibowl wellhead system will be employed. The wellhead								
and co	onnection to the BOPE will meet all API 6A requirements. The BOP will be tested								
per Or	nshore Order #2 after installation on the surface casing which will cover testing								
requir	ements 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									
	prior to cementing surface casing as discussed with the BLM on October 8, 2015.								
See at	tached schematics.								
	On Ex greate accord A vari Manif Y A mul and co per On requir system that is rotary								

BOP Break Testing Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

Depth		ander verste statististe statististe soller van de statististe soller van de statiste soller van de soller van Nationalististe soller van de statiste soller van de statiste soller van de statiste soller van de soller van de	Weight		
From (ft)	To (ft)	1 ype	(ppg)	Viscosity	Water Loss
0	632	Water-Based Mud	8.6-8.8	40-60	N/C
632	4377	Saturated Brine- Based Mud	9.8-10.0	35-45	N/C
4377	20199	Water-Based or Oil- Based Mud	8.0-9.6	38-50	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		
No	Resistivity		
No	Density		
No	CBL		
Yes	Mud log	ICP - TD	•
No	PEX		•

6

Drilling Plan

OXY USA Inc. - Platinum MDP1 34-3 Federal Com 12H – Drill Plan

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4672 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	155°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 four 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: <u>1844.4 bbls</u>.

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Derek Adam	Drilling Engineer	713-366-5170	916-802-8873
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

PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34_3 FED COM 12H

Original Hole

Plan: Permitting Plan

Standard Planning Report

14 December, 2018

Database: Company: Project: Site: Well: Wellbore: Design:	PRD I PLAT PLAT Origin Permi	NEERING DES NM DIRECTIO INUM MDP1 3 INUM MDP1 3 INUM MDP1 3 INUM MDP1 3 INUM MDP1 3	NAL PLANS 4-3 FED CON 4_3 FED COI	и И 12Н	Local Co- TVD Refe MD Refer North Ref Survey C	rence ence eren	e: ce:	R R G	Vell PLATINUN KB=26.5' @ 3 KB=26.5' @ 3 Grid Ainimum Curva	447.10ft 447.10ft	FED COM 12H
Project		M DIRECTION	IAL PLANS (I	NAD 1983)						1999 - 1911, daug-ugyako terretaria 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 nerican Datum xico Eastern Z			System Da	tum:			an Sea Level	ale factor	
Site	PLATI	NUM MDP1 34	-3 FED COM								
Site Position: From: Position Uncer	Ma tainty:		North Eastin 00 ft Slot F	•		923.9	5 usft	Latitude: Longitude: Grid Converg	jence:		32° 16' 1.502765 N 103° 46' 18.211063 W 0.30 °
Well	PLATIN	NUM MDP1 34	3 FED COM	12H			-				
Well Position	+N/-S	24	5.86 ft N e	orthing:		461	,598.29	usft Lati	tude:		32° 16' 3.882515 N
Position Uncer	+E/-W tainty	-		isting: ellhead Elevat	tion:	715	5,945.64 0.0		gitude: und Level:		103° 46' 6.296700 W 3,420.60 ft
Wellbore	Origin	al Hole									
Magnetics	Мо	del Name	Sampl	e Date	Declina (°)	tion		Dip A (°)			Strength nT)
· · · · ·		HDGM	1	2/14/2018	-		6.82	······	59.98		48,004
Design	Permit	ting Plan					 	ange a fear an		• •	
Audit Notes:											
Version:			Phas	e: P	ROTOTYPE		Tie	On Depth:		0.00	
Vertical Sectio	n:	De	epth From (T	VD)	+N/-S			-W 2		ection	<u> </u>
	. 		(ft) 0.00		(ft) 0.00		(ff 0.0	· · · · · · · · · · · · · · · · · · ·		(°) 7.15	
Plan Sections	1						1		-		
Measured	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	R	gleg ate 00ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0,00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	. <u> </u>
3,884.00	0.00	0.00	3,884.00	0.00	0.00		0.00	0.00	0.00	0.00	
4,484.10	12.00	32.11	4,479.72	53.04	33.28		2.00	2.00	0.00	32.11	
7,820.45	12.00 12.00	32.11 179.74	7,743.14 8,885.27	640.71 622.16	402.03 467.11		0.00 2.00	0.00 0.00	0.00 12.82	0.00 163.48	
	12.00	1/3./4	0,000.27	022.10	407.11		2.00	0.00	12.02	103.40	
8,972.32 9,751.28	89.90	179.74	9,339.10	62.77	469.65		10.00	10.00	0.00	0.00	FTP (Platinum

Database:	HOPSPP	Local Co-ordinate	Reference:	Well PLATINUM MDP1 34_3 FED COM 12H
Company:	ENGINEERING DESIGNS	TVD Reference:		RKB=26.5' @ 3447.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	· 4	RKB=26.5' @ 3447.10ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:		Grid
Well:	PLATINUM MDP1 34_3 FED COM 12H	Survey Calculatio	n Method:	Minimum Curvature
Wellbore:	Original Hole		1	
Design:	Permitting Plan			

lanned Surv	vey	· . (
Meas Dep (ft	oth	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
3	800.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
5	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
8	300.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
9	00.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1.0	00.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4	100.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1 6	600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	0.00	.1,700.00	0.00	0,00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	1,800.00	0.00	0,00	0.00	0.00		
		0.00				0,00		0.00	0.00	0.00
1,9	900.00		,0.00	1,900.00	0.00		0.00		0.00	0.00
2,0	00.00	0.00	0.00	2,000.00	0.00	0 00	0.00	0.00	0.00	0.00
2,1	00.00	0.00	0.00	2,100.00	0.00	0,00	0.00	0.00	0.00	0.00
2.2	200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,9	900.00	0.00	0.00	2,900.00	0.00	0 .00	0.00	0.00	0.00	0.00
3.0	00.00	0.00	· 0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	00.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,4	100.00	0.00	0.00	3,400.00	0.00	¢.00	0.00	0.00	0.00	0.00
3,5	500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3.6	600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0,00	0.00	0.00
	700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0,00
	300.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	384.00	0.00	0.00	3,884.00	0.00	0.00	0.00	0.00	0.00	0.00
						1				
	900.00	0.32	32.11	3,900.00	0.04	0.02	-0.04	2.00	2.00	0.00
4,0	00.00	2.32	32.11	3,999.97	1.99	1.25	-1.92	2.00	2.00	0.00
4,1	00.00	4.32	- 32.11	4,099.80	6.89	4.33	-6.67	2.00	2.00	0.00
4.2	200.00	6.32	32.11	4,199.36	14.75	9.25	-14.27	2.00	2.00	0.00
	300.00	8.32	32.11	4,298.54	25.54	1,6.03	-24.71	2.00	2.00	0.00
	100.00	10.32	32.11	4,397.21	39.26	24.63	-37.98	2.00	2.00	0.00
	184,10	12.00	32.11	4,479.72	53.04	33.28	-51.32	2.00	2.00	0.00
	500.00	12.00	32.11	4,495.27	55.85	35.04	-54.03	0.00	0.00	0.00
4,6	600.00	12.00	32.11	4,593.09	73.46	46.09	-71.08	0.00	0.00	0.00
	700.00	12.00	32.11	4,690.90	91.07	5 7.15	-88.12	0.00	0.00	0.00
A 9	300.00	12.00	32.11	4,788.72	108.69	68.20	-105.16	0.00	0.00	0.00
									0.00	0.00
	00.00	12.00	32.11	4,886.53	126.30	79.25	-122.20	0.00		
	00.00	12.00	32.11	4,984.34	143.92	90.30	-139.25	0.00	0.00	0.00
	00.00	12.00	32.11	5,082.16	161.53	101.36	-156.29	0.00	0.00	0.00

COMPASS 5000.1 Build 74

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34_3 FED COM 12H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3447.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3447.10ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34_3 FED COM 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Permitting Plan		

anned Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)		
5,200.00	12.00	32.11	5,179.97	179.14	112.41	-173.33	0.00	0.00	0.00		
5,300.00	12.00	32.11	5,277.79	196,76	123.46	-190.38	0.00	0.00	0.00		
5,400.00	12.00	32.11	5,375.60	214.37	134.51	-207.42	0.00	0.00	0.00		
5,500.00	12.00	32.11	5,473.41	231.99	145.57	-224.46	0.00	0.00	0.00		
5,600.00	12.00	32.11	5,571.23	249.60	156.62	-241.50	0.00	0.00	0.00		
5,700.00	12.00	32.11	5,669.04	267.21	167.67	-258.55	0.00	0.00	0.00		
5,800.00	12.00	32.11	5,766.86	284.83	178.72	-275.59	0.00	0.00	0.00		
5,900.00	12.00	32.11	5,864.67	302.44	189.77	-292.63	0.00	0.00	0.00		
6,000.00	12.00	32.11	5,962.48	320.06	200.83	-309.67	0.00	0.00	0.00		
6,100.00	12.00	32.11	6,060.30	337.67	211.88	-326.72	0.00	0.00	0.00		
•	12.00										
6,200.00		32.11	6,158.11	355.28	222.93	-343.76	0.00	0.00	0.00		
6,300.00	12.00	32.11	6,255.93	372.90	233,98	-360.80	0.00	0.00	0.00		
6,400.00	12.00	32.11	6,353.74	390.51	245 04	-377.84	0.00	0.00	0.00		
6,500.00	12.00	32.11	6,451.55	408.13	256 09	-394.89	0.00	0.00	0.00		
6,600.00		32.11	6,549.37	425.74	267 14	-411.93	0.00	0.00	0.00		
6,700.00	12.00	32.11	6,647.18	443.35	278 19	-428.97	0.00	0.00	0.00		
6,800.00	12.00	32.11	6,745.00	460.97	289.25	-446.01	0.00	0.00	0.00		
6,900.00	12.00	32.11	6,842.81	478.58	300.30	-463.06	0.00	0.00	0.00		
7,000.00	12.00	32.11	6,940.63	496.20	311.35	-480.10	0.00	0.00	0.00		
7,100.00	12.00	32.11	7,038.44	513.81	322.40	-497.14	0.00	0.00	0.00		
7,200.00	12.00	32.11	7,136.25	531.42	333.45	-514.18	0.00	0.00	0.00		
7,300.00	12.00	32.11	7,234.07	549.04	344.51	-531.23	0.00	0.00	0.00		
7,400.00	12.00	32.11	7,331.88	566.65	355.56	-548.27	0.00	0.00	0.00		
7,500.00	12.00	32.11	7,429.70	584.27	366.61	-565.31	0.00	0.00	0.00		
7,600.00	12.00	32.11	7,527.51	601.88	377.66	-582.36	0.00	0.00	0.00		
7,700.00	12.00	32.11	7,625.32	619.49	388.72	-599.40	0.00	0.00	0.00		
7,800.00	12.00	32.11	7,723.14	637.11	399.77	-616.44	0.00	0.00	0.00		
7,820.45	12.00	32.11	7,743.14	640.71	402.03	-619.93	0.00	0.00	0.00		
7,900.00	10.49	34.59	7,821.16		402.03	-632.45		-1.91			
				653.68			2.00		3.13		
8,000.00	8.62	38.93	7,919.77	667.00	420.41	-645.27	2.00	-1.87	4.34		
8,100.00	6.83	45.59	8,018.86	676.99	429.37	-654.80	2.00	-1.79	6.65		
8,200.00	5.19	56.66	8,118.31	683.63	437.39	-661.03	2.00	-1.64	11.07		
8,300.00	3.90	76.27	8,218.00	686.92	444.47	-663.97	2.00	-1.29	19.61		
8,400.00	3,39	107.13	8;317.81	686.86	450.60	-663.60	2.00	-0.51	30.86		
8,500.00	3.97	137.37	8,417.61	683.44	455.78	-659.93	2.00	0.58	30.24		
8,600.00	5.30	156.20	8,517.29	676.67	459.99	-652.96	2.00	1.32	18.83		
8,700.00	6.95	166.85	8,616.72	666.55	463.23	-642.69	2.00	1.65	10.65		
8,800.00	8.75	173.29	8,715.78	653.10	465.49	-629.15	2.00	1.80	6.44		
8,900.00	10.62	177.51	8,814.35	636.34	466.78	-612.34	2.00	1.87	4.22		
8,972.32 9,000.00	12.00 14.77	179.74 179.74	8,885.27 8,912.19	622.16 615.76	467.11 467.14	-598.16 -591.77	2.00 10.00	1.91 10.00	3.09 0.00		
9,100.00	24.77	179.74	9,006.18	581.98	467.29	-558.02	10.00	10.00	0.00		
9,200.00	34.77	179.74	9,092.87	532.40	467.51	-508.49	10.00	10.00	0.00		
9,300.00	44.77	179.74	9,169.64	468.51	467.80	-444.67	10.00	10.00	0.00		
9,400.00	54.77	179.74	9,234.15	392.26	468.15	-368.50	10.00	10.00	0.00		
9,500.00	64.77	179.74	9,284.43	305.98	468.54	-282.30	10.00	10.00	0.00		
9,600.00	74.77	179.74	. 9,318.97	212.27	468.97	-188.68	10.00	10.00	0.00		
9,700.00	84.77	179.74	9,336.71	113.98	469.41	-90.50	10.00	10.00	0.00		
9,751.28	89.90	179.74	9,339.10	62.77	469.65	-39.34	10.00	10.00	0.00		
9,800.00	89.90	179.74	9,339.19	14.06	469.87	9.33	0.00	0.00	0.00		
9,900.00	89.90	179.74	9,339.37	-85.94	470.32	109.23	0.00	0.00	0.00		
10,000.00	89.90	179.74	9,339.55	-185.94	470.78	209.12	0.00	0.00	0.00		
10,100.00	89.90	179.74	9,339.73	-285.94	471.23	309.02	0.00	0.00	0.00		
10,200.00	89.90	179.74	9,339.92	-385.94	471.69	408.92	0.00	0.00	0.00		

COMPASS 5000.1 Build 74

Database:	HOPSPP				Co-ordinate	Reference			3 FED COM 12H
				1	1 1	Reference.	1		S FED COW 12H
ompany:	1	NG DESIGNS			Reference:		RKB=26.5' (2) 3447.10ft	
roject:	PRD NM DIF	RECTIONAL PL	ANS (NAD 198	3) MD R	eference:		RKB=26.5' (2) 3447.10ft	
ite:	PLATINUM N	IDP1 34-3 FEE	DCOM	ĩ	Reference	• •	Grid		
Vell:				1					
		ADP1 34_3 FEI		Surve	y Calculation	n Methoa:	Minimum Cu	Irvature	
Veilbore:	Original Hole	:		1	11				
Design:	Permitting PI	an				19 A.	1		
					//				
Planned Survey.	[
Measured	d		Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
	· · · · · · · · · · · · · · · · · · ·						(,	······	
10,300.0	00 89.90	179.74	9,340.10	-485.94	472.14	508.82	0.00	0.00	0.00
10,400.0		179.74	9,340.28	-585.94	472.59		0.00	0.00	0.00
							0.00	0.00	
10,500.0		179.74	9,340.46	-685.94	473.05	708.61	0.00	0.00	0.00
10,600.0		179.74	9,340.64	-785.93	473.50	808.51	0.00	0.00	0.00
10,700.0	00 89.90	179.74	9,340.83	-885.93	473.96	908.41	0.00	0.00	0.00
10,800.0		179.74	9,341.01	-985.93	474.41	1,008.30	0.00	0.00	0.00
10,900.0		179.74	9,341.19	-1,085.93	474.86		0.00	0.00	0.00
10,000.0	03.30	110.14	0,0-1.10	1,000.00	414.00	6,100.20	0.00		0.00
11,000.0	00 89.90	179.74	9,341.37	-1,185.93	475.32	1,208.10	0.00	0.00	0.00
11,100.0		179.74	9,341.55	-1,285.93	475.77		0.00	0.00	0.00
11,200.0		179.74	9,341.73	-1,385.93	476.23		0.00	0.00	0.00
11,300.0		179.74	9,341.92	-1,485.93	476.68			0.00	
				,			0.00		0.00
11,400.0	00 89.90	179.74	9,342.10	-1,585.92	477.14	1,607.69	0.00	0.00	0.00
11,500.0	00 89.90	179.74	9,342.28	-1,685.92	477.59	1,707.59	0.00	0.00	0.00
11,600.0		179.74	9,342.46	-1,785.92	478.04	1,807.49	0.00	0.00	0.00
		179.74							
11,700.0			9,342.64	-1,885.92	478.50		0.00	0.00	0.00
11,800.0		179.74	9,342.83	-1,985.92	478.95		0.00	0.00	0.00
11,900.0	00 89.90	179.74	9,343.01	-2,085.92	479 41	2,107.18	0.00	0.00	0.00
12,000.0	00 89.90	179.74	9,343.19	-2,185.92	479 86	2,207.08	0.00	0.00	0.00
12,100.0		179.74	9,343.37	-2,285.92	480.31	2,306.97	0.00	0.00	0.00
12,200.0		179.74	9,343.55	-2,385.92	480,77	2,406.87	0.00	0.00	0.00
12,300.0	00 89.90	179.74	9,343.74	-2,485.91	481.22	2,506.77	0.00	0.00	0.00
12,400.0	00 89.90	179.74	9,343.92	-2,585.91	481.68	2,606.67	0.00	0.00	0.00
						•			•
12,500.0		179.74	9,344.10	-2,685.91	482.13		0.00	0.00	0.00
12,600.0	00 89.90	179.74	9,344.28	-2,785.91	482.59	2,806.46	0.00	0.00	0.00
12,700.0	00 89.90	179.74	9,344.46	-2,885.91	483.04	2,906.36	0.00	0.00	0.00
12,800.0		179.74	9,344.64	-2,985.91	483.49	3,006.26	0.00	0.00	0.00
12,900.0		179.74	9,344.83	-3,085.91	483.95		0.00	0.00	0.00
12,500.0		113.14	0,044.00	-3,003.31	403.95	5,100.10	0.00		0.00
13,000.0	00 89.90	179.74	9,345.01	-3,185.91	484.40	3,206.05	0.00	0.00	0.00
13,100.0		179.74	9,345.19	-3,285.90	484.86		0.00	0.00	0.00
13,200.0		179.74	9,345.37	-3,385.90	485.31	3,405.85	0.00	0.00	0.00
13,300.0		179.74	9,345.55	-3,485.90	485.76	3,505.75	0.00	0.00	0.00
				-3,585.90	485.78				
13,400.0	00 89.90	179.74	9,345.74	-3,365.90	400.22	3,605.64	0.00	0.00	0.00
13,500.0	00 89.90	179.74	9,345.92	-3,685.90	486.67	3,705.54	0.00	0.00	0.00
13,600.0		179.74	9,346.10	-3,785.90	487.13		0.00	0.00	0.00
13,700.0		179.74	9,346.28	-3,885.90	487.58		0.00	0.00	0.00
13,800.0									
		179.74	9,346.46	-3,985.90	488.04		0.00	0.00	0.00
13,900.0	00 89.90	179.74	9,346.64	-4,085.90	488.49	4,105.13	0.00	0.00	0.00
14,000.0	00 89.90	179.74	9,346.83	-4,185.89	488.94	4,205.03	0.00	0.00	0.00
14,100.0		179.74	9,347.01	-4,285.89	489.40	4,304.93	0.00	0.00	0.00
14,100.0		179.74	9,347.19	-4,385.89	489.85				0.00
							0.00	0.00	
14,300.0		179.74	9,347.37	-4,485.89	490.31	4,504.72	0.00	0.00	0.00
14,400.0	00 89.90	179.74	9,347.55	-4,585.89	490.76	4,604.62	0.00	0.00	0.00
14,500.0	0.089.90	179.74	9,347.74	-4,685.89	491.21	4,704.52	0.00	0.00	0.00
14,600.0		179.74	9,347.92	-4,785.89	491.67		0.00	0.00	0.00
14,700.0		179.74	9,348.10	-4,885.89	492.12		0.00	0.00	0.00
14,800.0	00 89.90	179.74	9,348.28	-4,985.88	492.58	5,004.21	0.00	0.00	0.00
14,900.0		179.74	9,348.46	-5,085.88	493.03		0.00	0.00	0.00
•					1				
15,000.0		179.74	9,348.65	-5,185.88	493.49	5,204.01	0.00	0.00	0.00
15,100.0	00 89.90	179.74	9,348.83	-5,285.88	493.94	5,303.90	0.00	0.00	0.00
15,200.0		179.74	9,349.01	-5,385.88	494.39	•	0.00	0.00	0.00
15,300.0		179.74	9,349.19	-5,485.88	494.85		0.00	0.00	0.00
15,400.0		179.74		-5,585.88	494.00		0.00	0.00	0.00
15,400.0	00 89.90	1/9./4	9,349.37		495.30	3,003.00	0.00	0.00	0.00
15 500 0	0 00	470 74	0.040.55	E COE 00	405 70	E 700 40	0.00	0.00	0.00

15,500.00 15,600.00

89.90

89.90

179.74

179.74

-5,685.88

5,703.49 5,803.39

495.76 496.21

0.00

0.00

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9,349.55

9,349.74

0.00 COMPASS 5000.1 Build 74

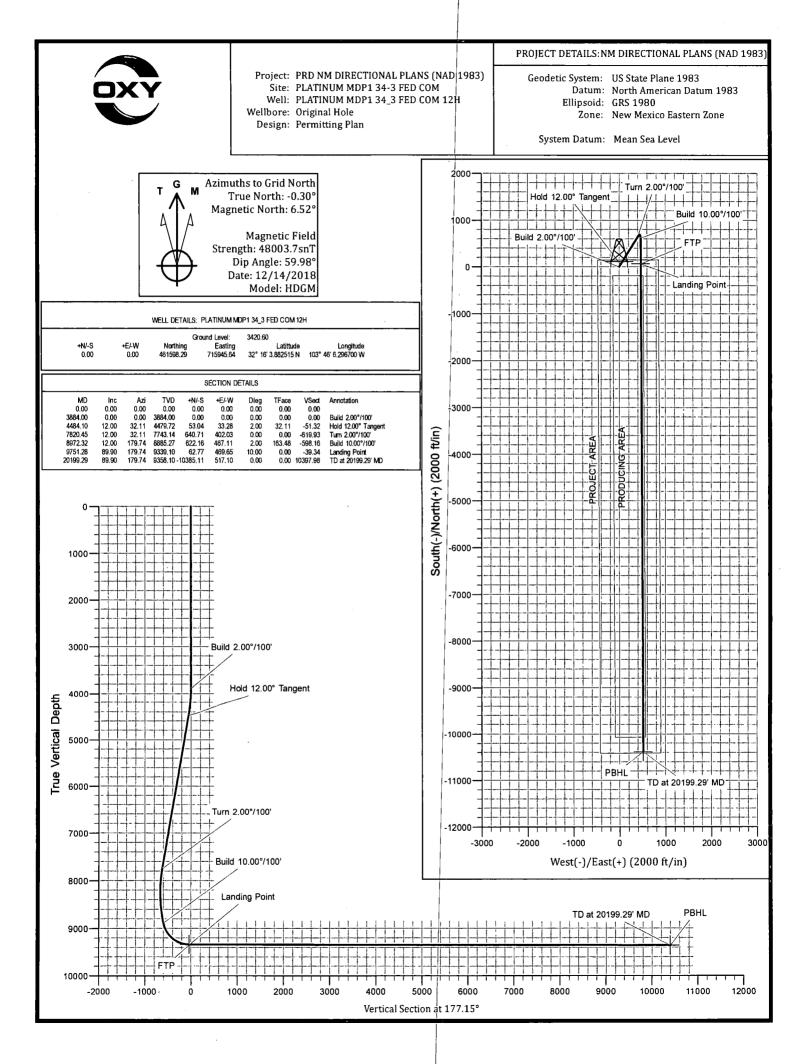
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Оху Planning Report

6 -4-1			<u> </u>	
Database:	HOPSPP	Local Co-ordinat	Reference:	Well PLATINUM MDP1 34_3 FED COM 12H
Company:	ENGINEERING DESIGNS	TVD Reference:		RKB=26.5' @ 3447.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:		RKB=26.5' @ 3447.10ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference	1	Grid
Well:	PLATINUM MDP1 34_3 FED COM 12H	Survey Calculation	Method:	Minimum Curvature
Wellbore:	Original Hole			
Design:	Permitting Plan			

anned Survey		· · · · · · · · · · · · · · · · · · ·							
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W	Vertical Section (ft)	Dogieg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	89.90	179,74	. 9,349.92	-5,885.87	496.67	5,903.29	0.00	0.00	0.00
15,800.00		179.74	9,350.10	-5,985.87	497.12	6,003.19	0.00	0.00	0.00
15,900.00		179.74	9,350.28	-6,085.87	497.57	6,103.09	0.00	0.00	0.00
16,000.00	89.90	179.74	9,350.46	-6,185.87	498.03	6,202.98	0.00	0.00	0.00
16,100.00	89.90	179.74	9,350.65	-6,285.87	498.48	6,302.88	0.00	0.00	0.00
16,200.00	89.90	179.74	9,350.83	-6,385.87	498.94	6,402.78	0.00	0.00	0.00
16,300.00	89.90	179.74	9,351.01	-6,485.87	499.39	6,502.68	0.00	0.00	0.00
16,400.00		179.74	9,351.19	-6,585.87	499.84	6,602.57	0.00	0.00	0.00
16,500,00	89.90	179.74	9,351.37	-6,685.86	500.30	6,702,47	0.00	0.00	0.00
16,600.00		179.74	9,351,55	-6,785.86	500.75	6,802.37	0.00	0.00	0.00
16,700.00		179.74	9,351.74	-6,885.86	501.21	6,902.27	0.00	0.00	0.00
16,800,00		179.74	9,351.92	-6,985.86	501.66	7,002.16	0.00	0.00	0.00
16,900.00		179.74	9,352.10	-7,085.86	502.12	7,102.06	0.00	0.00	0.00
17,000.00		179.74	9,352.28	-7,185.86	502.57	7,201.96	0.00	0.00	0.00
17,100.00		179.74	9,352.46	-7,285.86	503 02	7,301.86	0.00	0.00	0.00
17,200.00	89.90	179.74	9,352.65	-7,385.86	503 48	7,401.75	0.00	0.00	0.00
17,300.00	89.90	179.74	9,352.83	-7,485.85	503 93	7,501.65	0.00	0.00	0.00
17,400.00	89.90	179.74	9,353.01	-7,585.85	504 39	7,601.55	0.00	0.00	0.00
17,500.00	89.90	179.74	9,353.19	-7,685,85	504 84	7,701.45	0.00	0.00	0.00
17,600.00	89.90	179.74	9,353,37	-7,785.85	505 29	7,801.35	0.00	0.00	. 0.00
17,700,00	89.90	179.74	9,353,56	-7,885.85	505 75	7,901,24	0.00	0.00	0.00
17,800.00		179.74	9,353,74	-7,985,85	506 20	8.001.14	0.00	0.00	0.00
17,900.00		179.74	9,353.92	-8,085.85	506.66	8,101.04	0.00	0.00	0.00
18,000.00	89.90	179.74	9,354.10	-8,185.85	507,11	8,200,94	0.00	0.00	0,00
18,100.00		179.74	9,354,28	-8,285.84	507.57	8,300.83	0.00	0.00	0.00
18,200.00		179.74	9,354.46	-8,385.84	508.02	8,400.73	0.00	0.00	0.00
18,300.00		179.74	9,354.65	-8,485.84	508.47	8,500.63	0.00	0.00	0.00
18,400.00		179.74	9,354.83	-8,585.84	508.93	8,600.53	0.00	0.00	0.00
18,500.00		179.74	9,355.01	-8,685.84	509.38		0.00	0.00	0.00
						8,700.42			
18,600.00		179.74	9,355.19	-8,785.84	509.84	8,800.32	0.00	0.00	0.00
18,700.00		179.74	9,355.37	-8,885.84	510.29	8,900.22	0.00	0.00	0.00
18,800.00 18,900.00		179.74 179.74	9,355.56 9,355.74	-8,985.84 -9,085.84	510.74 511.20	9,000.12 9,100.02	0.00 0.00	0.00 0.00	0.00 0.00
,									
19,000.00		179.74	9,355.92	-9,185.83	511.65	9,199.91	0.00	0.00	0.00
19,100.00		179.74	9,356.10	-9,285.83	512.11	9,299.81	0.00	0.00	0.00
19,200.00		179.74	9,356.28	-9,385.83	512.56	9,399.71	0.00	0.00	0.00
19,300.00		179.74	9,356.46	-9,485.83	513.02	9,499.61	0.00	0.00	0.00
19,400.00	89.90	179.74	9,356.65	-9,585.83	513.47	9,599.50	0.00	0.00	0.00
19,500.00		179.74	9,356.83	-9,685.83	513.92	9,699.40	0.00	0.00	0.00
19,600.00		179.74	9,357.01	-9,785.83	514.38	9,799.30	0.00	0.00	0.00
19,700.00	89.90	179.74	9,357.19	-9,885.83	514.83	9,899.20	0.00	0.00	0.00
19,800.00	89.90	179.74	9,357.37	-9,985.82	51,5.29	9,999.09	0.00	0.00	0.00
19,900.00	89.90	179.74	9,357.56	-10,085.82	515.74	10,098.99	0.00	0.00	0.00
20,000.00	89.90	179.74	9,357.74	-10,185.82	516.19	10,198.89	0.00	0.00	0.00
20,100.00		179.74	9,357.92	-10,285.82	516.65	10,298.79	0.00	0.00	0.00
20,199.29		179.74	9,358.10	-10,385.11	517.10	10,397.98	0.00	0.00	0.00
,	20.00		-,	,	- 1				

Database: Company: Project: Site: Well: Wellbore: Design:	PRD N PLATIN	EERIN M DIR IUM N IUM N I Hole		PLANS (N/ ED COM		TVD Refe MD Refer North Ref	ence:		RKB=26 RKB=26 Grid	ATINUM MDP1 34_3 6.5' @ 3447.10ft 6.5' @ 3447.10ft m Curvature	FED COM 12H
Design Targets Target Name - hit/miss targe - Shape	t Dip A (°)		Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)		Easting (usft)	Latitude	Longitude
FTP (Platinum MDP1 - plan hits target i - Point	center	0.00	0.00	9,339.10	62.77	469.65	461,661.06		716,415.26	32° 16' 4.479160 N	103° 46' 0.82329
PBHL (Platinum MDP - plan hits target - Point		0.00	0.00	9,358.10	-10,385.11	517.10	451,213.78		716,462.71	32° 14' 21.095273 N	103° 46' 0.91260
Plan Annotations					·····						
Meas De (f	oth	De	tical pth ft)	Loca +N/-S (ft)	I Coordinat	es ⊦E/-W (ft)	Comment	· A		•• • • • •	, · ·
4,2 7,8 8,9 9,7	884.00 84.10 920.45 972.32 751.28 999.29	4,4 7, 8,8 9,3	884.00 479.72 743.14 885.27 339.10 358.10	0.1 53.1 640. 622. 622. -10.385.	04 71 16 77	0.00 33.28 402.03 467.11 469.65 517.10	Build 2.00°/100' Hold 12.00° Tar Turn 2.00°/100' Build 10.00°/100 Landing Point TD at 20199.29'	ľ			



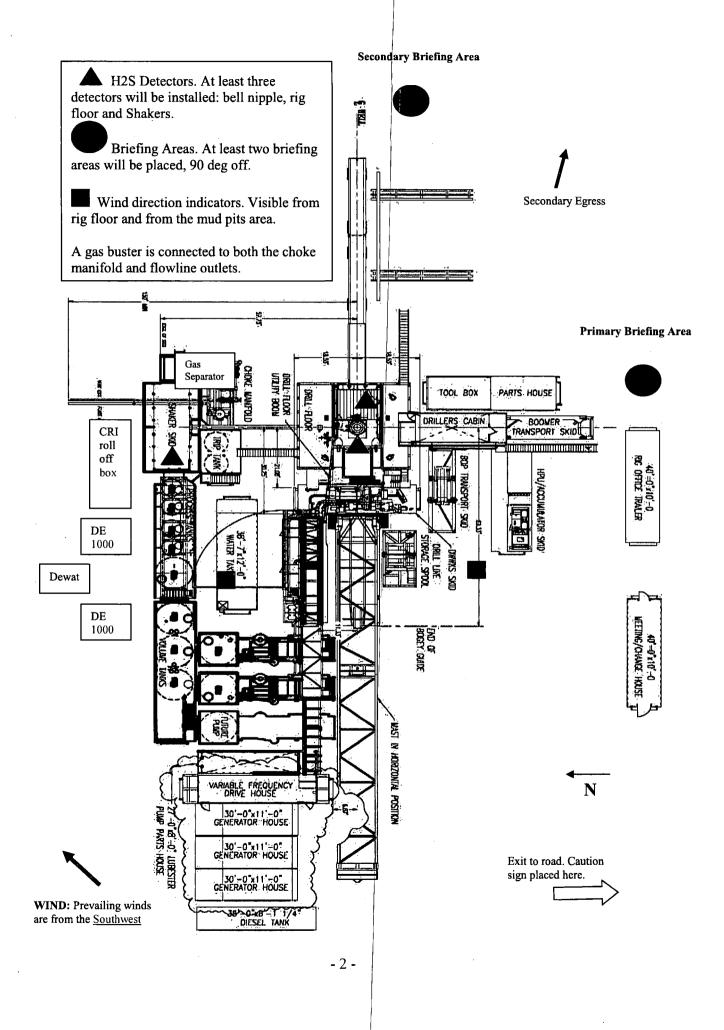
YPermian

Permian Drilling Hydrogen Sulfide Drilling Operations Plan Platinum MDP1 34-3 Federal Com 12H

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.



DXYPermian

Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

<u>Scope</u>

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

- 1 -

Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to commence.
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

- 2 -

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site briefing

- 3 -

Emergency Equipment Requirements

1. <u>Well control equipment</u>

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as BLM Onshore Order #2.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

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Wind sock – wind streamers:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

green – normal conditions yellow – potential danger red – danger, H2S present

B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

- 6. <u>Metallurgy</u>
 - A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
 - B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

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Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. Designated area

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
 - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

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- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:

1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw

- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.
- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

Tool pusher:

1. Don escape unit, shut down pumps, continue

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		rotating DP.
	2.	Check monitor for point of release.
	3.	Report to nearest upwind designated safe briefing /
	5.	muster area.
	4.	
	4.	Check status of personnel (in an attempt to rescue,
	~	use the buddy system).
	5.	Assigns least essential person to notify Drill Site
		Manager and tool pusher by quickest means in case
		of their absence.
	6.	Assumes the responsibilities of the Drill Site
		Manager and tool pusher until they arrive should
		they be absent.
Derrick man	1.	Will remain in briefing / muster area until instructed
Floor man #1		by supervisor.
Floor man #2		
Mud engineer:	1.	Report to nearest upwind designated safe briefing /
		muster area.
	2.	When instructed, begin check of mud for ph and
		H2S level. (Garett gas train.)
Safety personnel:	1.	Mask up and check status of all personnel and secure
		operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

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Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blow out under the prevailing conditions at the well.

Instructions for igniting the well

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **<u>Do not assume the area is safe after the well is ignited.</u>**

Status check list

Note:	All items on this list must be completed before drilling to production casing point.
1.	H2S sign at location entrance.
2.	Two (2) wind socks located as required.
3.	Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
4.	Air packs inspected and ready for use.
5.	Cascade system and hose line hook-up as needed.
6.	Cascade system for refilling air bottles as needed.
7.	Condition flag on location and ready for use.
8.	H2S detection system hooked up and tested
9. ·	H2S alarm system hooked up and tested.
10.	Hand operated H2S detector with tubes on location.
11.	1 – 100' length of nylon rope on location.
12.	All rig crew and supervisors trained as required.
13.	All outside service contractors advised of potential H2S hazard on well.
14.	No smoking sign posted and a designated smoking area identified.
15.	Calibration of all H2S equipment shall be noted on the IADC report.
Check	ed by: Date:

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Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

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General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity -1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i

Toxicity of various gases

Common	Chemical	Specific	Threshold	Hazardous	Lethal concentration
name	formula	gravity	limit	limit	(3)
		(sc=1)	(1)	(2)	
Hydrogen	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide			1		
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide				<i>II</i>	···· II ···
Sulfur	So2	2.21	5 ppm	-	1000 ppm
Dioxide	502		• pp		PP
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Chieffie	012	2.40		· ppmm	rooo ppin
Carbon	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Monoxide	00	0.97	Jo ppin	ico ppinin	rooo ppin
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide	02	1.52	2000 ppm	570	10/0
Methane	Ch4	0.55	90,000 ppm	m Combustible above 5% in air	
wichalt	<u> </u>	0.55	<u> </u>	Combustion	

1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.

2) hazardous limit – concentration that will cause death with short-term exposure.

3) lethal concentration – concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	<u>Ppm</u>	Grains	
		100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.
0.001	<10	00.65	Obvious and unpleasant odor.

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0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

*at 15.00 psia and 60'f.

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<u>Use of self-contained breathing equipment (SCBA)</u>

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

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- B. When breaking out any line where H2\$ can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

<u>Rescue</u> <u>First aid for H2S poisoning</u>

Do not panic!

Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012

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OXY Permian Delaware NM Basin Dri	lling & Completi	ons Incident Reporting	a da anti-angla angla angla angla ang angla ang ang ang ang ang ang ang ang ang an
OXY Permian Crisis Team Hotli			an a
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Drilling Superintendent: Simon Benavides	Houston	(713) 215-7403	(832) 528-3547
Completions Superintendent: Chris Winter	Houston	(713) 366-5212	(806) 239-8774
Drilling Eng. Supervisor: Diego Tellez	Houston	(713) 350-4602	(713) 303-4932
Drilling Eng. Supervisor: Randy Neel	Houston	(713) 215-7987	(713) 517-5544
Completions Eng. Supervisor: Evan Hinkel	Houston	(713) 366-5436	(281) 236-6153
Drilling & Completions HES Lead. Ryan Green	Houston	713-336-5753	281-520-5216
Drilling & Completions HES Advisor:Kenny Williams	Carlsbad	(432) 686-1434	(337) 208-0911
Drilling & Completions HES Advisor:Kyle Holden	Carlsbad	(432) 686-1435	(661) 369-5328
Drilling & Completions HES Advisor Sr:Dave Schmidt	Carlsbad		(559) 310-8572
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Jon Hamil-HES Manager	Houston	(713) 497-2494	(832) 537-9885
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Austin Tramell	Midland	(432) 699-4208	(575) 499-4919
Rico Munoz	Midland	(432) 699-8366	(432) 803-4116
Amber DuckWorth	Midland		(832) 966-1879
Kelley Montgomery- Regulatory Manager	Houston	(713) 366-5716	(832) 454-8137
Sandra Musallam -Regulatory Lead	Houston	+1 (713) 366-5106	+1 (713) 504-8577
Bishop, Steve-DOT Pipeline Coordinator	Midland	432-685-5614	
Wilson, Dusty-Safety Advisor	Midland	432-685-5771	(432) 254-2336
John W Dittrich Eniromental Advisor	Midland		(575) 390-2828
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Sarah Holmes-HSE Cordinator	Midland	432-685-5758	
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Sarah Holmes	Midland	432-685-5830	
Robertson, Debbie	Midland	432-685-5812	
Laci Hollaway	Midland	(432) 685-5716	(432) 631-6341
Administrative	Locatio		
Rosalinda Escajeda	Midland	432-685-5831	

Person	Location	Office Phone	Cell/Mobile Phone
Moreno, Leslie (contract)	Hobbs	575-397-8247	
Sehon, Angela (contractor)	Levelland	806-894-8347	
Vasquez, Claudia (contractor)	North Cowden	432-385-3120	
XstremeMD	Location	Office	
Medical Case Management	Orla, TX	(337) 205-9314	
Axiom Medical Consulting	Location	Office	
Medical Case Management		(877) 502-9466	
Regulatory Agencies		a a seconda de la composición de la composicinda composición de la composición de la composición de la	
Bureau of Land Management	Carlsbad, NM	(505) 887-6544	
Bureau of Land Management	Hobbs, NM	(505) 393-3612	
Bureau of Land Management	Roswell, NM	(505) 393-3612	
Bureau of Land Management	Santa Fe, NM	(505) 988-6030	
DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375	
DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission	Austin, TX	(512) 463-6788	· · · · · · · · · · · · · · · · · · ·
EPA Hot Line	Dallas, Texas	(214) 665-6444	
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681	
National Response Center	Washington, D. C.	(800) 424-8802	
National Infrastructure Coordinator Center		(202) 282-9201	
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494	
New Mexico Oil Conservation Division	Artesia, NM	(505) 748-1283	After Hours (505) 370- 7545
New Mexico Oil Conservation Division	Hobbs, NM	(505) 393-6161	
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068	
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 476-3470	
New Mexico Environmental Department	Hobbs, NM	(505) 827-9329	
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222	
Railroad Commission of TX	District 1 San Anton	io, (210) 227-1313	
Railroad Commission of TX	District 7C San Ange	elc (325) 657-7450	
Railroad Commission of TX	District 8, 8A Midla	nd (432) 684-5581	
Texas Emergency Response Center	Austin, TX	(512) 463-7727	
TCEQ Air	Region 2 Lubbock, 7	ГХ (806) 796-3494	
TCEQ Water/Waste/Air	Region 3 Abilene, T	X (325) 698-9674	
TCEQ Water/Waste/Air	Region 7 Midland, T	TX (432) 570-1359	
TCEQ Water/Waste/Air	Region 9 San Antoni	io, (512) 734-7981	
TCEQ Water/Waste/Air	Region 8 San Angelo	0 (325) 655-9479	
Medical Facilities			- -
Abernathy Medical Clinic	Abernathy, TX	(806) 298-2524	
Alliance Hospital	Odessa, TX	(432) 550-1000	
Artesia General Hospital	Artesia, NM	(505) 748-3333	
Brownfield Regional Medical Center	Brownfield, TX	(806) 637-3551	

Cogdell Memorial Hospital Covenant Hospital Levelland Covenant Medical Center Covenant Medical Center Lakeside Covenant Family Health Crockett County Hospital	Snyder, TX Levelland, TX Lubbock, TX Lubbock, TX	(325) 573-6374 (806) 894-4963 (806) 725-1011	
Covenant Medical Center Covenant Medical Center Lakeside Covenant Family Health	Lubbock, TX		
Covenant Medical Center Lakeside Covenant Family Health		(806) 725-1011	
Covenant Family Health	Lubbock, TX		
		(806) 725-6000	· · ·
Crockett County Hospital	Synder, TX	(325) 573-1300	
	Ozona, TX	(325) 392-2671	
Guadalupe Medical Center	Carlsbad, NM	(505) 887-6633	
Lea Regional Hospital	Hobbs, NM	(505) 492-5000	
McCamey Hospital	McCamey, TX	(432) 652-8626	
Medical Arts Hospital	Lamesa, TX	(806) 872-2183	
Medical Center Hospital	Odessa, TX	(432) 640-4000	
Medi Center Hospital	San Angelo, TX	(325) 653-6741	
Memorial Hospital	Ft. Stockton	(432) 336-2241	
Memorial Hospital	Seminole, TX	(432) 758-5811	
Midland Memorial Hospital	Midland, TX	(432) 685-1111	
Nor-Lea General Hospital	Lovington, NM	(505) 396-6611	
Odessa Regional Hospital	Odessa, TX	(432) 334-8200	
Permian General Hospital	Andrews, TX	(432) 523-2200	
Reagan County Hospital	Big Lake, TX	(325) 884-2561	
Reeves County Hospital	Pecos, TX	(432) 447-3551	
Shannon Medical Center	San Angelo, TX	(325) 653-6741	
Union County General Hospital	Clayton, NM	(505) 374-2585	
University Medical Center	Lubbock, TX	(806) 725-8200	
Val Verde Regional Medical Center	Del Rio, TX	(830) 775-8566	
Ward Memorial Hospital	Monahans, TX	(432) 943-2511	
Yoakum County Hospital	Denver City, TX	(806) 592-5484	
Law Enforcement - Sheriff			
Andrews Cty Sheriff's Department	Andrews County(Andr	(432) 523-5545	
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571	
Crockett Cty Sheriff's Department	Crockett County (Ozor	(325) 392-2661	
Dawson Cty Sheriff's Department	Dawson County (Lame	(806) 872-7560	
Ector Cty Sheriff's Department	Ector County (Odessa)	(432) 335-3050	
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(505) 746-2704	
Eddy Cty Sheriff's Department	Eddy County (Carlsbac	(505) 887-7551	
Gaines Cty Sheriff's Department	Gaines County (Semin	(432) 758-9871	
Hockley Cty Sheriff's Department	Hockley County(Level	(806) 894-3126	
Kent Cty (Jayton City Sheriff's Dept.)	Kent County(Jayton)	(806) 237-3801	
Lea Cty Sheriff's Department	Lea County (Eunice)	(505) 384-2020	
Lea Cty Sheriff's Department	Lea County (Hobbs)	(505) 393-2515	<u> </u>
Lea Cty Sheriff's Department	Lea County (Lovingtor	(505) 396-3611	1
Lubbock Cty Sheriff's Department	Lubbock Cty (Abernati	(806) 296-2724	1
Midland Cty Sheriff's Department	Midland County (Midl	(432) 688-1277	

Person	Location	Office Phone	Cell/Mobile Phone
Pecos Cty Sheriff's Department	Pecos County (Iraan)	(432) 639-2251	
Reeves Cty Sheriff's Department	Reeves County (Pecos		
Scurry Cty Sheriff's Department	Scurry County (Snyde		
Terry Cty Sheriff's Department	Terry County (Brown		
Union Cty Sheriff's Department	Union County (Clayto		
Upton Cty Sheriff's Department	Upton County (Rankin		
Ward Cty Sheriff's Department	Ward County (Monah	1	
Yoakum City Sheriff's Department	Yoakum Co. (Denever	1 · · · · · · · · · · · · · · · · · · ·	
Law Enforcement - Police			
Abernathy City Police	Abernathy, TX	(806) 298-2545	
Andrews City Police	Andrews, TX	(432) 523-5675	
Artesia City Police	Artesia, NM	(505) 746-2704	
Brownfield City Police	Brownfield, TX	(806) 637-2544	
Carlsbad City Police	Carlsbad, NM	(505) 885-2111	
Clayton City Police	Clayton, NM	(505) 374-2504	
Denver City Police	Denver City, TX	(806) 592-3516	
Eunice City Police	Eunice, NM	(505) 394-2112	
Hobbs City Police	Hobbs, NM	393-2677	
Jal City Police	Jal, NM	(505) 395-2501	
Jayton City Police	Jayton, TX	(806) 237-3801	
Lamesa City Police	Lamesa, TX	(806) 872-2121	
Levelland City Police	Levelland, TX	(806) 894-6164	
Lovington City Police	Lovington, NM	(505) 396-2811	
Midland City Police	Midland, TX	(432) 685-7113	
Monahans City Police	Monahans, TX	(432) 943-3254	
Odessa City Police	Odessa, TX	(432) 335-3378	
Seminole City Police	Seminole, TX	(432) 758-9871	
Snyder City Police	Snyder, TX	(325) 573-2611	
Sundown City Police	Sundown, TX	(806) 229-8241	
Law Enforcement - FBI			e de la composition d
FBI	Alburqueque, NM	(505) 224-2000	
FBI	Midland, TX	(432) 570-0255	
		1	
Law Enforcement - DPS			
NM State Police	Artesia, NM	(505) 746-2704	
NM State Police	Carlsbad, NM	(505) 885-3137	
NM State Police	Eunice, NM	(505) 392-5588	
NM State Police	Hobbs, NM	(505) 392-5588	
NM State Police	Clayton, NM	(505) 374-2473; 911	
TX Dept of Public Safety	Andrews, TX	(432) 524-1443	
TX Dept of Public Safety	Big Lake, TX	(325) 884-2301	

Person	Location	Office Phone	Cell/Mobile Phone
TX Dept of Public Safety	Brownfield, TX	(806) 637-2312	
TX Dept of Public Safety	Iraan, TX	(432) 639-3232	
TX Dept of Public Safety	Lamesa, TX	(806) 872-8675	
TX Dept of Public Safety	Levelland, TX	(806) 894-4385	
TX Dept of Public Safety	Lubbock, TX	(806) 747-4491	
TX Dept of Public Safety	Midland, TX	(432) 697-2211	
TX Dept of Public Safety	Monahans, TX	(432) 943-5857	
TX Dept of Public Safety	Odessa, TX	(432) 332-6100	
TX Dept of Public Safety	Ozona, TX	(325) 392-2621	
TX Dept of Public Safety	Pecos, TX	(432) 447-3533	
TX Dept of Public Safety	Seminole, TX	(432) 758-4041	
TX Dept of Public Safety	Snyder, TX	(325) 573-0113	
TX Dept of Public Safety	Terry County TX	(806) 637-8913	
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377	
Firefighting & Rescue			
Abernathy	Abernathy, TX	(806) 298-2022	
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113	
Andrews	Andrews, TX	523-3111	
Artesia	Artesia, NM	(505) 746-5051	
Big Lake	Big Lake, TX	(325) 884-3650	
Brownfield-Administrative & other calls	Brownfield, TX	(816) 637-4547	
Brownfield emergency only	Brownfield, TX	-911	
Carlsbad	Carlsbad, NM	(505) 885-3125	
Clayton	Clayton, NM	(505) 374-2435	
Cotton Center	Cotton Center, TX	(806) 879-2157	
Crane	Crane, TX	(432) 558-2361	
Del Rio	Del Rio, TX	(830) 774-8650	
Denver City	Denver City, TX	(806) 592-3516	
Eldorado	Eldorado, TX	(325) 853-2691	
Eunice	Eunice, NM	(505) 394-2111	
Garden City	Garden City, TX	(432) 354-2404	
Goldsmith	Goldsmith, TX	(432) 827-3445	
Hale Center	Hale Center, TX	(806) 839-2411	
Halfway	Halfway, TX		
Hobbs	Hobbs, NM	(505) 397-9308	
Jal	Jal, NM	(505) 395-2221	
Jayton	Jayton, TX	(806) 237-3801	·
Kermit	Kermit, TX	(432) 586-3468	
Lamesa	Lamesa, TX	(806) 872-4352	
Levelland	Levelland, TX	(806) 894-3154	
Lovington	Lovington, NM	(505) 396-2359	
Maljamar	Maljamar, NM	(505) 676-4100	

Person	Location	Office Phone	Cell/Mobile Phon
McCamey	McCamey, TX	(432) 652-8232	
Midland	Midland, TX	(432) 685-7346	
Monahans	Monahans, TX	(432) 943-4343	
Nara Visa	Nara Visa, NM	(505) 461-3300	
Notrees	Notress, TX	(432) 827-3445	
Odessa	Odessa, TX	(432) 335-4659	
Ozona	Ozona, TX	(325) 392-2626	
Pecos	Pecos, TX	(432) 445-2421	
Petersburg	Petersburg, TX	(806) 667-3461	
Plains	Plains, TX	(806) 456-8067	
Plainview	Plainview, TX	(806) 296-1170	
Rankin	Rankin, TX	(432) 693-2252	
San Angelo	San Angelo, TX	(325) 657-4355	
Sanderson	Sanderson, TX	(432) 345-2525	
Seminole	Seminole, TX	758-9871	
Smyer	Smyer, TX	(806) 234-3861	
Snyder	Snyder, TX	(325) 573-6215	x
Sundown	Sundown, TX	911	
Tucumcari	Tucumcari, NM	911	
West Odessa	Odessa, TX	(432) 381-3033	
Ambulance		an a	
Abernathy Ambulance	Abernathy, TX	(806) 298-2241	
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113	
Andrews Ambulance	Andrews, TX	(432) 523-5675	
Artesia Ambulance	Artesia, NM	(505) 746-2701	
Big Lake Ambulance	Big Lake, TX	(325) 884-2423	
Big Spring Ambulance	Big Spring, TX	(432) 264-2550	
Brownfield Ambulance	Brownfield, TX	(806) 637-2511	
Carlsbad Ambulance	Carlsbad, NM	(505) 885-2111; 911	
Clayton, NM	Clayton, NM	(505) 374-2501	
Denver City Ambulance	Denver City, TX	(806) 592-3516	
Eldorado Ambulance	Eldorado, TX	(325) 853-3456	
Eunice Ambulance	Eunice, NM	(505) 394-3258	
Goldsmith Ambulance	Goldsmith, TX	(432) 827-3445	
Hobbs, NM	Hobbs, NM	(505) 397-9308	
Jal, NM	Jal, NM	(505) 395-2501	
Jayton Ambulance	Jayton, TX	(806) 237-3801	
Lamesa Ambulance	Lamesa, TX	(806) 872-3464	
Levelland Ambulance	Levelland, TX	(806) 894-8855	
Lovington Ambulance	Lovington, NM	(505) 396-2811	
McCamey Hospital	McCamey, TX	(432) 652-8626	
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Person	Location	Office Phone	Cell/Mobile Phone
Monahans Ambulance	Monahans, TX	3731	
Nara Visa, NM	Nara Visa, NM	(505) 461-3300	
Odessa Ambulance	Odessa, TX	(432) 335-3378	
Ozona Ambulance	Ozona, TX	(325) 392-2671	
Pecos Ambulance	Pecos, TX	(432) 445-4444	
Rankin Ambulance	Rankin, TX	(432) 693-2443	
San Angelo Ambulance	San Angelo, TX	(325) 657-4357	
Seminole Ambulance	Seminole, TX	758-9871	
Snyder Ambulance	Snyder, TX	(325) 573-1911	
Stanton Ambulance	Stanton, TX	(432) 756-2211	
Sundown Ambulance	Sundown, TX	911	
Tucumcari, NM	Tucumcari, NM	911	
Medical Air Ambulance Service			
AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376	
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354	
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199	
Southwest MediVac	Snyder, TX	(800) 242-6199	
Southwest MediVac	Hobbs, NM	(800) 242-6199	
Odessa Care Star	Odessa, TX	(888) 624-3571	
NWTH Medivac	Amarillo, TX	(800) 692-1331	

.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Incorporated
LEASE NO.:	NMNM043744
WELL NAME & NO.:	Platinum MDP1 34-3 Federal Com 12H
SURFACE HOLE FOOTAGE:	160'/N & 1790'/W
BOTTOM HOLE FOOTAGE	20'/S & 2260'/W
LOCATION:	Section 34, T.23 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico



H2S	C Yes	© No	· · · · · · · · · · · · · · · · · · ·
Potash	O None	C Secretary	• R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Variance	O None	• Flex Hose	C Other
Wellhead	C Conventional	C Multibowl	Both
Other	4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	D Pilot Hole
Special Requirements	U Water Disposal	COM	🗇 Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 741 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 4406 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

the lead cement slurry due to cave/karst or potash.

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Option 2:

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Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Operator has proposed to pump down 9-5/8" X 5-1/2" annulus. <u>Operator must run</u> <u>a CBL from TD of the 5-1/2" casing to surface. Submit results to BLM.</u> Excess calculates to 5% - additional cement might be required.

Alternate Casing Design:

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

4. The minimum required fill of cement behind the 7-5/8 inch 2^{nd} intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must run</u> <u>a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.</u> Excess calculates to 11% - additional cement might be required.

- 5. The minimum required fill of cement behind the 5+1/2 inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 20% additional cement might be required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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D. SPECIAL REQUIREMENT (S)

BOP Break Testing Variance

• BOP break testing is not permitted on this well pending submittion of break testing sundry.

Offline Cementing

• Contact the BLM prior to the commencement of any offline cementing procedure.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be</u> on the sign.

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GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Chaves and Roosevelt Counties Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. During office hours call (575) 627-0272. After office hours call (575)

- Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING
- Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the

- plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi.
 The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

NMK01272020

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

	Oxy USA Incorporation
WELL NAME & NO.:	Platinum MDP1 34-3 Federal Com 12H
SURFACE HOLE FOOTAGE:	160'/N & 1790'/W
BOTTOM HOLE FOOTAGE	20'/S & 2260'/W
LOCATION:	Section 34, T.23 S., R.31 E., NMPM
	Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

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VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM s Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

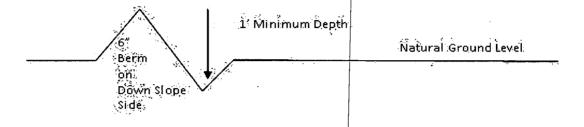
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

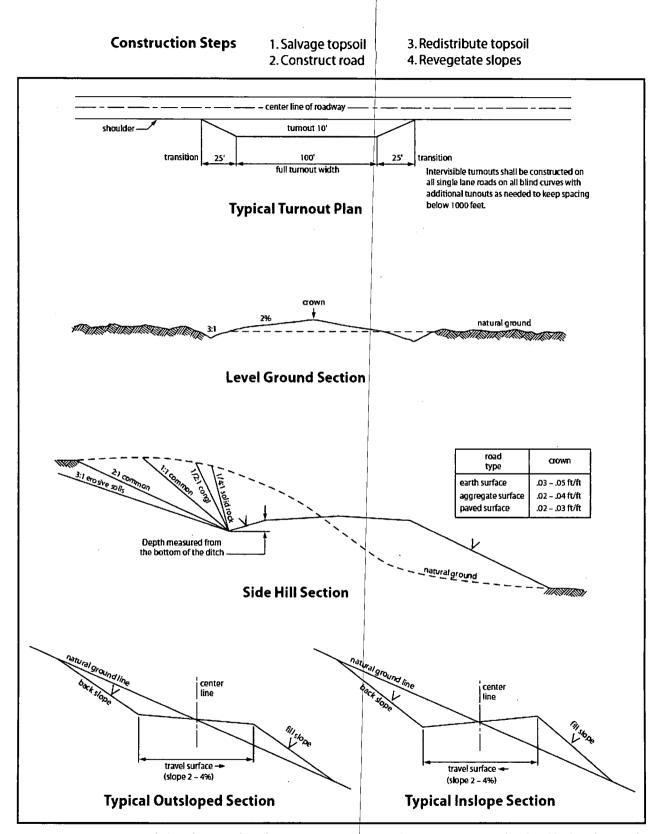
Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

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Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

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5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of $\frac{36}{36}$ inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

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12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-ofway and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

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other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.
- 19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, reportable quantity established by 40 CFR, Part 117 Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as

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a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full

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expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-ofway width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a

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legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken:</u> Oil and gas activities will not be allowed in lesser prairiechicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

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6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be

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allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

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Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

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Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

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