		HOBS	•			
Form 3160-3 (June 2015)	c	REC JAN 21	⁸ OC	FORM OMB N Expires: J	APPRO lo. 1004- anuary 3	VED 0137 1,2018
DEPARTMENT OF THE I	NTERI	OR CEIVE		5. Lease Serial No.		
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	AGEME DRILL C	DR REENTER	0	6. If Indian, Allotee	e or Tribe	Name
1a. Type of work:	EENTER	<u> </u>		7. If Unit or CA Ag NMNM138364	reement,	Name and No.
10. Type of Well: Image: Completion of Completion: 1c. Type of Completion: Image: Hydraulic Fracturing	other ingle Zone	e 🔲 Multiple Zone		8. Lease Name and PERIDOT 8 FEDE 6H	Well No ERAL 208	30)
2. Name of Operator CONOCOPHILLIPS COMPANY (2/78/8)				9. API Well No. 30-025	-46	785
3a. Address PO Box 2197 Houston TX 77252	3b. Pho (281)29	ne No. <i>(include area cod</i>)3–1748	le)	10. Field and Pool, MALJAMAR / YES	or Éxplo SO WES	rator 44500)
 Location of Well (Report location clearly and in accordance v At surface SWNE / 1586 FNL / 2635 FEL / LAT 32.852 At proposed prod. zone LOT 2 / 1650 FNL / 330 FWL / L 	with any S 2069 / LC _AT 32.85	State requirements.*) DNG -103.788625 51925 / LONG -103.81	3442	11. Sec., T. R. M. o SEC 8 / T17S / R3	or Blk. an 32E / NM	d Survey or Area IP
14. Distance in miles and direction from nearest town or post off 1.3 miles	fice*			12. County or Paris	h	13. State NM
15. Distance from proposed [•] location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No o 320	of acres in lease	17. Spaci 280.95	ng Unit dedicated to t	this well	· · · · · · · · · · · · · · · · · · ·
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 140 feet	19. Prop 5492 fe	oosed Depth et / 12991 feet	20. BLM FED: ES	'BIA Bond No. in file 0085	;	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4052 feet	22. App 06/14/2	roximate date work will 019	start*	23. Estimated durat 21 days	ion	
	24. A	ttachments				
I he following, completed in accordance with the requirements of (as applicable)	f Onshore	Oil and Gas Order No.	, and the h	lydraulic Fracturing i	nie per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover th Item 20 above).	e operation	is unless covered by a	n existing	g bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office	m Lands, :).	the 5. Operator certific 6. Such other site sp BLM.	ation. ecific infor	mation and/or plans a	s may be	requested by the
25. Signature (Electronic Submission)	Ni Su	ame (Printed/Typed) usan Maunder / Ph: (28	31)206-52	81	Date 04/26/2	2018
Title Senior Coordinator, Regulatory MCBU	A				<u></u>	
Approved by (Signature) (Electronic Submission)	Ni Co	ame <i>(Printed/Typed)</i> ody Layton / Ph: (575)2	234-5959		Date 12/13/2	2019
Title Assistant Field Manager Lands & Minerals	0	ffice ARI SBAD				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds le	gal or equitable title to the	nose rights	in the subject lease w	hich wou	ald entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, rr of the United States any false, fictitious or fraudulent statements	nake it a c or represe	rime for any person known ntations as to any matter	wingly and within its j	willfully to make to urisdiction.	any depa	rtment or agency
6ch Acc 01/21/2020	ven l	VITH CONDIT	IONS	K=2 011	n11"	w ²⁰
(Continued on page 2)		12/13/2010		(4) *(In	structio	ons on page 2)

Gas Capture Plan Peridot 8 Federal Wells

Peric	lot 8 Federal Wells-I	Located in Sec. 8, T	L7S, R32E	
Well Name:	6H	8H	16H	18H
Well Leastion.	1586' FNL	775' FNL	1485' FNL	635' FNL
	2635' FEL	2543' FWL	2538' FEL	2542' FWL
Production Facility Name:		Peridot 8 Federal	CF1 Tank Battery	
Production Facility Location:		NWNE, Section	n 8, T17S, R32E	
Anticipated Completion Date:	60-120 days after dr	illing completed; dep	endent upon comple	tion crew availability
Initial Production Volumes:				
Oil (bopd)	570	570	480	480
Gas (mcfd)	620	620	530	530
Water (bwpd)	2300	2300	1900	1900
Date of First Production:	<	45 days following co	ompletion operation	ns
Expected Well Life Expectancy:	25 years	25 years	25 years	25 years

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

APD Print Report

12/30/2019

APD ID: 10400026506

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: PERIDOT 8 FEDERAL

Well Type: OIL WELL

Submission Date: 04/26/2018 Federal/Indian APD: FED Well Number: 6H Well Work Type: Drill



Application

Section 1 - General			
APD ID: 10400026506	Tie to previous NOS?	Ν	Submission Date: 04/26/2018
BLM Office: CARLSBAD	User: Susan Maunder		Title: Senior Coordinator, Regulatory
Federal/Indian APD: FED	Is the first lease penet	rated for	MCBU production Federal or Indian? FED
Lease number: NMLC0064149	Lease Acres: 320		
Surface access agreement in place?	Allotted?	Rese	rvation:
Agreement in place? NO	Federal or Indian agree	ement:	
Agreement number:			
Agreement name:			
Keep application confidential? NO			
Permitting Agent? NO	APD Operator: CONOC	OPHILLI	PS COMPANY
Operator letter of designation:	Peridot 8 Fed 6H SerialRegiste	r 201801:	23152431.pdf
	Peridot_8_Fed_6H_JOA_Certif_L	_ tr_201804	125131749.pdf

Operator Info

Operator Organization Name: CONOCOPHILLIPS COMPANY

Operator Address: PO Box 2197

Operator PO Box:

Operator City: Houston State: TX

Operator Phone: (281)293-1748

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Master SUPO name:

Zip: 77252

Well in Master SUPO? NO

Approval Date: 12/13/2019

Page 1 of 23

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Well	Nam	e: PE	RIDO)T 8 F	EDE	RAL			v	/ell Numbe	er: 6H			W	ell API N	lumbe	er:		
Field	eld/Pool or Exploratory? Field and Pool									ield Name	: MALJ	AMAR		P	ool Name	e: YE	so w	EST	
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ls th	e pro	pose	d we	ll in a	Heliu	ım pı	rodu	ction ar	ea? N U	se Existin	g Well	Pad?	NO	N	ew surfa	ce dis	sturba	ince?	
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Well	sub-	Туре	: INF	ILL															
Desc	cribe	sub-t	ype:																
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Rese	ervoii	r well	spac	ing a	ssigr	ned a	cres	Measur	ement: 2	80.95 Acres	5								
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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Mendian	Lease Type	Lease Number	Elevation	MD	Q/T	Will this well produce
SHL Leg #1	158 6	FNL	263 5	FEL	17S	32E	8	Aliquot SWNE	32.85206 9	- 103.7886 25	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 064149	405 2	0	0	

Approval Date: 12/13/2019

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CONOCOPHILLIPS	co	PO BOX 7500	BARTLES	VILLE OK 740057500)	OPERATING RIGHTS	0.000000000
LINN ENERGY HOL	DINGS LLC	600 TRAVIS ST STE 5100	HOUSTO	N TX 770023092		OPERATING RIGHTS	0.00000000
MALJAMAR DEV PR	TNSHP	8115 PRESTON RD #400	DALLAS	TX 75225		OPERATING RIGHTS	0.000000000
SABINE OIL & GAS	CORP	707 17TH ST STE 3600	DENVER	CO 802023406		OPERATING RIGHTS	0.000000000
SANDRIDGE EXPL	& PROD LL	C 123 ROBERT S KERR AVE	OKLAHO	NA CITY OK 7310264	06	OPERATING RIGHTS	0.000000000
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06/08/1934	496	FUND CODE	05;145003
06/08/1934	868	EFFECTIVE DATE	
09/14/1945	553	CASE CREATED BY ASGN	OUT OF NMLC029406-B;
11/20/1956	102	NOTICE SENT-PROD STATUS	
11/01/1961	242	LEASE RENEWED	THRU 10/31/71;
11/01/1961	534	RLTY RATE-SLIDING-SCH D	
11/01/1961	868	EFFECTIVE DATE	LAST RENEWAL;
05/01/1967	232	LEASE CONNITTED TO UNIT	NNRH70988X;MALJAMAR G
05/01/1967	651	HELD BY FROD - ALLOCATED	MALJAMAR GRAYBURG UA
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04/03/1987	963	CASE NICROFILMED/SCANNED	CNUM 102,962 RW
01/05/1988	974	AUTONATED RECORD VERIF	AR/EC
10/11/1990	974	AUTOMATED RECORD VERIF	GG
06/22/1992	932	TRF OPER RGTS FILED	CHEVRON/WISER OIL CO
08/20/1992	933	TRF OPER RGTS APPROVED	EFF 07/01/92;
08/20/1992	974	AUTOMATED RECORD VERIF	SSP/JS
10/01/1992	621	RLTY RED-STRIPPER WELL	2.1%;/1/8910088480
01/15/1993	625	RLTY REDUCTION APPV	/1/
03/21/1994	974	AUTOMATED RECORD VERIF	ANN
12/04/1995	932	TRF OPER RGTS FILED	THE WISER/MALJAMAR
03/28/1996	933	TRF OPER RGTS APPROVED	EFF 01/01/96;
03/28/1996	974	AUTOMATED RECORD VERIF	NV/MV
08/01/1996	932	TRF OPER RGTS FILED	CHEVRON/CONOCO
11/05/1996	933	TRF OPER RGTS APPROVED	EFF 09/01/96;
11/05/1996	974	AUTOMATED RECORD VERIF	JLV
05/22/1997	932	TRF OPER RGTS FILED	NALJAMAR/WISER OIL
06/25/1997	933	TRF OPER RGTS APPROVED	EFF 06/01/97;
06/25/1997	974	AUTOMATED RECORD VERIF	MV/MV
01/16/2003	817	MERGER RECOGNIZED	CONOCO/CONOCOPHILLIPS

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NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

THRU 07/31/99;

\$480.00;43/1103645

MCS/MT

06/12/1989

08/01/1989 08/01/1989

07/05/1990

974 AUTOMATED RECORD VERIF

242 LEASE RENEWED

868 EFFECTIVE DATE

111 RENTAL RECEIVED

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Page 1 of 1

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CHASE ROBERT C	•	PO BOX 359 PO BOX 207	AR IESIA NM 882110359 AR TESIA NM 88211037		OPERATING RIGHTS	0,00000000
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11/25/1933	124	APLN RECD	Addon Kemar	1 6/16		
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01/11/1983	140	ASGN FILED	(1) CONOCO/PINRSHP PRO)		
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Susan B. Maunder Sr. Coordinator, Regulatory Phone: (281) 206-5281 ConocoPhillips Company 600 N. Dairy Ashford Road, Off EC3-10-W285 Houston, TX 77079-1175

April 24, 2018

Bureau of Land Management Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220-6292

RE: Joint Operating Agreement Pending APD – Peridot 8 Federal 6H Section 8, T17S, R32E Lease Numbers – NMLC 064149

Dear Sir or Madam,

ConocoPhillips Company has negotiated a Joint Operating Agreement with COG Operating LLC which covers approximately 480 acres in Section 8, Township 17 South, Range 32 East. The agreement, along with other terms, provides access to surface, operated by the other party. This mutual access will allow more oil and gas resource recovery by maximizing horizontal wellbore, formation contact.

Please accept this letter as our certification our two companies are, in agreement of operating rights within the Peridot 8 Federal area. In regard to Peridot development, COP respectfully requests BLM to process the referenced APD to afford the maintenance of our leases in a timely manner.

If you have questions regarding this certification, I can be reached at 281-206-5281 or via email at <u>Susan.B.Maunder@conocophillips.com</u>.

Sincerely,

Susan B. Maunder Senior Coordinator, Regulatory ConocoPhillips Company

Peridot Section 7 and 8 Lease Map

 NMLC061434	\checkmark
NMLC058775	
	al 4H rederal 14H
-NMLC029406B	ederal 11H

ConocoPhillips

Well Name: PERIDOT 8 FEDERAL

Well Number: 6H

/elibore	S-Foot	S Indicator	W-Foot	W Indicator	dsw	ange	ection	liquot/Lot/Tract	atitude	ongitude	ounty	tate	leridian	ase Type	ease Number	levation	Ω	D	/ill this well produce om this lease?
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Drilling Plan

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
171205	RUSTLER	3214	855	855	ANHYDRITE, DOLOMITE	NONE	N
171206	SALADO	2224	990	990	ANHYDRITE, SALT	NONE	N
171207	TANSILL	1144	2070	2070	ANHYDRITE, DOLOMITE, SALT	NONE	N
171208	YATES	1004	2210	2210	ANHYDRITE, DOLOMITE, SANDSTONE	NONE	N
171209	SEVEN RIVERS	699	2515	2515	ANHYDRITE, DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
171210	QUEEN	79	3135	3135	ANHYDRITE, DOLOMITE, SANDSTONE	NATURAL GAS, OIL	Ν
171211	GRAYBURG	-356	3570	3570	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	Ν
171212	SAN ANDRES	-661	3875	3875	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N

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Well Name: PERIDOT 8 FEDERAL

Well Number: 6H

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
171213	GLORIETA	-2169	5383	5408	DOLOMITE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	N
171214	PADDOCK	-2258	5472	5528	ANHYDRITE, DOLOMITE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 5615

Equipment: Rotating Head, Annular Preventer, Pipe/Blind Rams, Kill Lines, Choke Lines, Adapter Spool

Requesting Variance? YES

Variance request: We request variance to use flexible choke line(s) from the BOP to Choke Manifold. We also request approval to have the option of using a 13" 3M BOP depending on equipment availability.

Testing Procedure: BOP/BOPE tested by independent company to 250 psi low; high of 50% working psi, and as required by Onshore Order 2. See also attached "Drill Plan".

Choke Diagram Attachment:

Peridot_8_Fed_6H_3M_Choke_Manifold__1_20180124070204.pdf

Peridot_8_Fed_6H_FlexhoseVarianceData_20180124070243.pdf

BOP Diagram Attachment:

Peridot_8_Fed_6H_13in_5M_BOPE_Diagram_20180124070219.pdf

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	LC
1	SURFACE	17.5	13.375	NEW	API	N	0	885	0	885	4052		885	J-55	54.5	ST&C	2.89	6.98	DRY	10.7	DRY	17
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2250	0	2250			2250	J-55	40	LT&C	2.2	3.38	DRY	5.78	DRY	7
3	PRODUCTI ON	8.75	7.0	NEW	API	Y	0	5200	0	5200			5200	L-80	29	LT&C	2.88	3.35	DRY	3.89	DRY	4.
4	PRODUCTI ON	8.75	5.5	NEW	API	Y	5200	12991	5200	5492			7791	L-80	20	LT&C	3.36	3.5	DRY	3.36	DRY	2.

Well Name: PERIDOT 8 FEDERAL

Well Number: 6H

Casing ID: 1	String Type: SURFACE
Inspection Docur	ient:
Spec Document:	
Tapered String S	ec:
Casing Design A	sumptions and Worksheet(s):
Peridot_8_F	ed_6H_Csg_Worksheet_20180124075915.pdf
Casing ID: 2	String Type: INTERMEDIATE
Inspection Docur	ient:
Spec Document:	
Tapered String S	ec:
Casing Design As	sumptions and Worksheet(s):
Peridot_8_F	ed_6H_Csg_Worksheet_20180124075935.pdf
Casing ID: 3	String Type: PRODUCTION
Inspection Docur	ient:
Spec Document:	
Tapered String S	ec:
Peridot_8_F	ed_6H_Csg_Worksheet_20180124075948.pdf
Casing Design As	sumptions and Worksheet(s):
Peridot_8_F	ed_6H_Csg_Worksheet_20180124080005.pdf

Well Name: PERIDOT 8 FEDERAL

Well Number: 6H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Peridot_8_Fed_6H_Csg_Worksheet_20180124080024.pdf

Casing Design Assumptions and Worksheet(s):

Peridot_8_Fed_6H_Csg_Worksheet_20180124080035.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	585	500	1.68	13.5	840	50	Class C	4.0% Bentonite + 0.2% Anti-Foam + 2.0% CaCl2 +0.125lb/sk LCM + 0.1% Dispersant
SURFACE	Tail		585	885	400	1.35	14.8	540	50	Class C	0.2% Anti-Foam + 0.1% Lost Circ Control + 2 lbs/bbl CemNET (losses Control)
INTERMEDIATE	Lead		0	1750	450	2.29	11.5	1031	50	Class C	10.0% Bentonite + 0.2% Anti-Foam + 2.0% Expanding + 0.15% Viscosifier + 1.3% Retarder
INTERMEDIATE	Tail		1750	2250	300	1.29	13.5	387	50	Class C	1% Extender + 3 lb/sk Extender + 0.2% Anti- Foam + 0.1% Dispersant + 13 lb/sk LCM + 0.5% Fluid Loss + 0.7% Retarder
PRODUCTION	Lead		1700	5200	650	3.2	11	2080	15	Class C	6% Extender + 10% Gas Migration Control + 2% Sodium Metasilicate (dry) + 1% Cement Bonding Agent + 3% Aluminum Silicate +

Approval Date: 12/13/2019

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Operator Name: CONOCOPHILLIPS COMPANY Well Name: PERIDOT 8 FEDERAL Well Number: 6H												
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives	
											0.125 lb/sx Cello Flake + 3 lb/sx LCM-1	

PRODUCTION	Lead	5200	1299	1900	1.37	14	2603	15	Class C	Class C + 3lb/sk LCM +
			1							1.5% Fluid Loss + 0.1%
										+ 1% Sodium
										Metasilicate (dry) +
										1.5% Fluid Loss Control

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 will be kept on location at all times. See attached "Drill Plan" for discussion.

Describe the mud monitoring system utilized: Closed-loop mud system using steel mud containers will be on location. Mud monitoring of any changes in levels (gains or losses) will use Pressure Volume Temperature instrumentation, Pason, Visual Observations. See attached "Drill Plan" for discussion.

	÷		s/gal)	s/gal)	/cu ft)	bs/100 sqft)		G.	(L		racteristics
Top Depth	Bottom Dep	Mud Type	Min Weight (lb:	Max Weight (Ib	Density (lbs	Gel Strength (II	H	Viscosity (C	Salinity (ppr	Filtration (co	Additional Cha
0	885	OTHER : Freshwater Gel	8.5	9							
885	2250	SALT SATURATED	10	10							
2250	5615	OTHER : Cut Brine	8.6	10							

Circulating Medium Table

Approval Date: 12/13/2019

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Well Name: PERIDOT 8 FEDERAL

Well Number: 6H

Section 6 - Test, Logging, Coring

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

Production tests will be conducted multiple times per week, through a test separator, during first month(s) following completion. Thereafter, tests will be less frequently. List of open and cased hole logs run in the well:

List of open and cased note logs run in the

CNL,GR,MUDLOG

Coring operation description for the well:

No coring operation is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2815

Anticipated Surface Pressure: 1597.74

Anticipated Bottom Hole Temperature(F): 100

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:

Peridot_8_Fed_6H_TypicalRigLayout_20180124083218.pdf Peridot_8_Fed_6H_H2S_CPlan_20180426072014.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Peridot_8_Fed_6H_DirectionalPlan_20180124083556.pdf

Peridot_8_Fed_6H_WellboreSchematic_20180425142203.pdf

Other proposed operations facets description:

Option to upgrade casing connection to BTC is requested, in addition to the ability to upgrade our BOP equipment, depending on availability. We request approval of option to run open hole sliding sleeve in lateral section (option attachment included). We request variance to use multi-bowl wellhead. See attached "Drill Plan" for discussion.

Other proposed operations facets attachment:

Peridot_8_Fed_6H_Drill_Waste_Containment_20180124083631.pdf Peridot_8_Fed_6H_GasCapturePlan_20180423144456.pdf Peridot_8_Fed_6H_WellboreSchematicOH_20180425142259.pdf Peridot_8_Fed_6H_Drill_Plan_20180425142441.pdf





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ConocoPhillips

ConocoPhillips

Lea County, New Mexico (NAD 27) Peridot 8 Federal 6H

Wellbore #1

Plan: Design #1

Standard Planning Report

18 August, 2017







Planning Report

Database: Company:	EDM 5	OUU.14 Conroe	DR		o-ordinate Refere	nce: Well 6H	70. 10ft (Trinidad 417)
Project:	Lea Co	or misps ounty. New Mexi	co (NAD 27)	I VD Rete	erence:	Well @ 4069.7	/Uustt (Trinidad 417) 70ustt (Trinidad 417)
Site:	Perido	t 8 Federal		North Re	ference:	Grid	ousit (militad 417)
Well:	6H			Survey C	Calculation Metho	od: Minimum Curv	vature
Wellbore:	Wellbo	re #1		-			
Design:	Design	#1					
Project	Lea Co	unty, New Mexic	o (NAD 27)				
Map System: Geo Datum:	US State NAD 192	Plane 1927 (Ex 7 (NADCON CO	act solution)	System D	atum:	Mean Sea Level	
Map Zone:	New Mex	tico East 3001					
Well	6H						
Well Position	+N/-S	674,083.08 us	ift Northing:		674,083.08 usft	Latitude:	32° 51' 7.023 N
	+E/-W	667,433.13 us	ift Easting:		667,433.13 usft	Longitude:	103° 47' 17.230 W
Position Uncertain	nty	0.00 us	ift Wellhead E	levation:		Ground Level:	4,052.20 usf
Wellbore	Weilbo	re #1					
Magnetics	Mod	el Name	Sample Date	Declina (°)	tion	Dip Angle (°)	Field Strength (nT)
	E	BGGM2017	8/1/2017		7.13	60.62	48,341
Design	Design	#1					
Audit Notes:					·····		
Version:			Phase:	PROTOTYPE	Tie On	Depth:	0.00
Vertical Section:		Depth	From (TVD)	+N/-S	+E/-W	Dire	ection
			(usft)	(usft)	(usft)		(°)
			0.00	0.00	0.00	26	9.80
Plan Survey Tool	Program	Date 8/1	7/2017				··
Depth From (usft)	Depth (usft	To) Survey (W	elibore)	Tool Name	Re	marks	
	12.001	27 Decise #4				· ·	
1 0.00	12,551	.57 Design#1	vvelibore #1)	MWD - OWS	G R1		
Plan Sections	· · · · •	· · · · · · · · · · · · · · · · · · ·				·····	
Measured	nation	Ver Naimuth D	tical	+===	Dogleg B	uild Turn	750

(usft) (°) (°) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°/	Target
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
1,000.00 0.00 1,000.00 0.00 0.00 0.00 0.	
1,065.59 0.98 180.00 1,065.59 -0.56 0.00 1.50 1.50 0.00 180.00	
4,727.08 0.98 180.00 4,726.54 -63.44 0.00 0.00 0.00 0.00 0.00 0.00	
4,792.68 0.00 0.00 4,792.13 -64.00 0.00 1.50 -1.50 0.00 180.00	
5,042.68 0.00 0.00 5,042.13 -64.00 0.00 0.00 0.00 0.00 0.00 0.00	
5,952.68 91.00 269.80 5,615.00 -66.05 -582.95 10.00 10.00 0.00 269.80	
12,991.37 91.00 269.80 5,492.16 -90.79 -7,620.53 0.00 0.00 0.00 0.00	PBHL - Peridot 8 Fe





Planning Report

•-----Database: EDM 5000.14 Conroe DB Local Co-ordinate Reference: Well 6H Company: ConocoPhillips **TVD Reference:** Well @ 4069.70usft (Trinidad 417) Project: Lea County, New Mexico (NAD 27) MD Reference: Well @ 4069.70usft (Trinidad 417) Peridot 8 Federal Site: North Reference: Grid Well: 6H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design: Design #1

Planned Survey

Depth Inclination Azimuth Depth +H/S +E/AV Section Rate Rate Rate 0.00 <th>Measured</th> <th></th> <th></th> <th>Vertical</th> <th></th> <th></th> <th>Vertical</th> <th>Dogleg</th> <th>Build</th> <th>Turn</th>	Measured			Vertical			Vertical	Dogleg	Build	Turn
0.00 0.00 <th< th=""><th>Depth (usft)</th><th>Inclination (°)</th><th>Azimuth (°)</th><th>Depth (usft)</th><th>+N/-S (usft)</th><th>+E/-W (usft)</th><th>Section (usft)</th><th>Rate (°/100usft)</th><th>Rate (°/100usft)</th><th>Rate (°/100usft)</th></th<>	Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
100.00 0.00 100.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00 <	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00 0.00	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00 <	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0.0 0.0.0 <t< td=""><td>400.00</td><td>0.00</td><td>0.00</td><td>400.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00 <	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00 <	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00 <	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00 0.00 0.00 855.00 0.00	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
855.00 0.00 855.00 0.00 0.00 0.00 0.00 0.00 0.00 900.00 0.00 0.00 900.00 0.00	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler 900.00 0.00 <td>855.00</td> <td>0.00</td> <td>0.00</td> <td>855.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	855.00	0.00	0.00	855.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00 0.00 900.00 0.00	Rustler									
13 3gr 0.00 <	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
Sec. Sec. <th< td=""><td>13 3/8"</td><td>0.00</td><td>0.00</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></th<>	13 3/8"	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
SB0.00 <	000.00	0.00	0.00	000.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado Solado O.00	990.00	0.00	0.00	990.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00 0.00	Salado									
KOP, 1.50°/100° Build 1,065,59 0.98 180.00 1,065,59 -0.56 0.00 0.00 1.50 1.50 0.00 1,100.00 0.98 180.00 1,099.99 -1.15 0.00 <t< td=""><td>1,000.00</td><td>0.00</td><td>0.00</td><td>1,000.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,065.59 0.88 180.00 1,065.59 -0.56 0.00 0.00 1.50 1.50 0.00 1,100.00 0.98 180.00 1,199.98 -2.87 0.00 0.01 0.00 0.00 0.00 1,200.00 0.98 180.00 1,399.95 -6.31 0.00 0.02 0.00 0.00 0.00 1,600.00 0.98 180.00 1,499.93 -8.02 0.00 0.03 0.00 0.00 0.00 1,600.00 0.98 180.00 1,699.99 -11.46 0.00 <td< td=""><td>KOP, 1.50°</td><td>/100' Build</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	KOP, 1.50°	/100' Build								
Hold 0.95* Inc, 180.00* Azm 1,100.00 0.98 180.00 1,199.98 -2.87 0.00 0.00 0.00 0.00 1,300.00 0.98 180.00 1,299.96 -4.59 0.00 0.01 0.00 0.00 0.00 1,400.00 0.98 180.00 1,299.96 -4.59 0.00 0.02 0.00 0.00 0.00 1,600.00 0.98 180.00 1,499.93 -8.02 0.00 0.03 0.00 0.00 0.00 1,600.00 0.98 180.00 1,599.90 -11.46 0.00 0.04 0.00 0.00 0.00 1,800.00 0.98 180.00 1,799.89 -13.17 0.00 0.06 0.00 0.00 0.00 0.00 2,000.00 0.98 180.00 1,999.86 -16.61 0.00 0.00 0.00 0.00 0.00 2,000.00 0.98 180.00 2,299.81 -21.76 0.00 0.00 0.00 0.00	1,065.59	0.98	180,00	1,065.59	-0.56	0.00	0.00	1.50	1.50	0.00
1,100.00 0.94 180.00 1,099.99 -1.15 0.00 0.00 0.00 0.00 0.00 1,200.00 0.98 180.00 1,199.98 -2.87 0.00 0.01 0.00 0.00 0.00 1,300.00 0.98 180.00 1,399.95 -6.31 0.00 0.02 0.00 0.00 0.00 1,500.00 0.98 180.00 1,399.95 -6.31 0.00 0.03 0.00 0.00 0.00 1,600.00 0.98 180.00 1,599.92 -9.74 0.00 0.03 0.00 0.00 0.00 1,700.00 0.98 180.00 1,599.89 -13.17 0.00 0.05 0.00 0.00 0.00 2,000.00 0.98 180.00 1,599.87 -14.89 0.00 0.06 0.00 0.00 0.00 2,000.00 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 0.00 0.00	Hold 0.98°	Inc. 180.00° A	zm							
1,200.00 0.98 180.00 1,199.98 -2.87 0.00 0.01 0.00 0.00 0.00 1,300.00 0.98 180.00 1,299.96 -4.59 0.00 0.02 0.00 0.00 0.00 1,600.00 0.98 180.00 1,399.95 -6.31 0.00 0.02 0.00 0.00 0.00 1,600.00 0.98 180.00 1,599.92 -9.74 0.00 0.03 0.00 0.00 0.00 1,600.00 0.98 180.00 1,699.90 -11.46 0.00 0.04 0.00 0.00 0.00 1,800.00 0.98 180.00 1,899.87 -14.89 0.00 0.05 0.00 0.00 0.00 2,070.15 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 2,010.00 0.98 180.00 2,199.83 -20.24 0.00 0.07 0.00 0.00 0.00 2,100.00 0.98 180.00 2,299.81 -20.22 0.00 0.07 0.00 <td< td=""><td>1,100.00</td><td>0.98</td><td>180.00</td><td>1,099.99</td><td>-1.15</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>	1,100.00	0.98	180.00	1,099.99	-1.15	0.00	0.00	0.00	0.00	0.00
1,200,00 0,98 180,00 1,39,35 2,07 0,00 0,01 0,00	1 200 00	0.09	190.00	1 100 09	2 97	0.00	0.01	0.00	0.00	0.00
1,300,00 0.98 180,00 1,299,35 -4.39 0.00 0.02 0.00 0.00 0.00 1,500,00 0.98 180,00 1,499,33 -8.02 0.00 0.03 0.00 0.00 0.00 1,600,00 0.98 180,00 1,699,92 -3.74 0.00 0.03 0.00 0.00 0.00 1,700,00 0.98 180,00 1,699,92 -3.74 0.00 0.05 0.00 0.00 0.00 1,800,00 0.98 180,00 1,699,92 -11,46 0.00 0.05 0.00 0.00 0.00 1,900,00 0.98 180,00 1,999,86 -16,61 0.00 0.06 0.00 0.00 0.00 2,070,15 0.98 180,00 2,199,83 -20,24 0.00 0.07 0.00 0.00 0.00 2,200,00 0.98 180,00 2,299,84 -18,33 0.00 0.00 0.00 0.00 0.00 2,210,17 0.98 180,00 2,299,84 -21,76 0.00 0.00 0.00 <td< td=""><td>1,200.00</td><td>0.90</td><td>180.00</td><td>1,199.90</td><td>-2.07</td><td>0.00</td><td>0.01</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>	1,200.00	0.90	180.00	1,199.90	-2.07	0.00	0.01	0.00	0.00	0.00
1,400.00 0.98 180.00 1,999.95 -0.31 0.00 0.02 0.00 0.00 0.00 0.00 1,600.00 0.98 180.00 1,699.92 -9.74 0.00 0.03 0.00 0.00 0.00 1,700.00 0.98 180.00 1,699.90 -11.46 0.00 0.04 0.00 0.00 0.00 1,800.00 0.98 180.00 1,999.86 -14.49 0.00 0.05 0.00 0.00 0.00 2,000.00 0.98 180.00 1,999.86 -16.61 0.00 0.06 0.00 0.00 0.00 2,070.15 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 2,100.00 0.98 180.00 2,210.00 -20.22 0.00 0.07 0.00 0.00 2.00 2,100.00 0.98 180.00 2,29.81 -21.76 0.00 0.00 0.00 0.00 0.00 0.00	1,300.00	0.90	180.00	1,299.90	-4.09	0.00	0.02	0.00	0.00	0.00
1,500.00 0.98 180.00 1,499.93 -8.02 0.00 0.03 0.00 0.00 0.00 1,600.00 0.98 180.00 1,599.92 -9.74 0.00 0.03 0.00 0.00 0.00 1,800.00 0.98 180.00 1,799.89 -13.17 0.00 0.05 0.00 0.00 0.00 2,000.00 0.98 180.00 1,999.86 -16.61 0.00 0.06 0.00 0.00 0.00 2,000.00 0.98 180.00 2,099.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,100.00 0.98 180.00 2,198.83 -20.04 0.00 0.07 0.00 0.00 0.00 2,210.10 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,400.00 0.98 180.00 2,499.79 -25.19 0.00 0.08 0.00 0.00 0.00 2,400.00 0.00	1,400.00	0.90	100.00	1,399.95	-0.31	0.00	0.02	0.00	0.00	0.00
1,000,00 0.98 180,00 1,399,92 -3,74 0.00 0.03 0.00 0.00 0.00 1,700,00 0.98 180,00 1,699,90 -11,46 0.00 0.04 0.00 0.00 0.00 1,900,00 0.98 180,00 1,899,87 -14,49 0.00 0.05 0.00 0.00 0.00 2,000,00 0.98 180,00 2,070,00 -17,81 0.00 0.06 0.00 0.00 0.00 2,010,00 0.98 180,00 2,070,00 -17,81 0.00 0.06 0.00 0.00 0.00 2,100,00 0.98 180,00 2,210,00 -20,22 0.00 0.07 0.00 0.00 0.00 2,210,17 0.98 180,00 2,399,81 -21,76 0.00 0.08 0.00 0.00 0.00 2,400,00 0.98 180,00 2,399,81 -21,76 0.00 0.08 0.00 0.00 0.00 2,500,00	1,500.00	0.98	180.00	1,499.93	-8.02	0.00	0.03	0.00	0.00	0.00
1,700.00 0.98 180.00 1,699.90 -11.46 0.00 0.04 0.00 0.00 0.00 1,800.00 0.98 180.00 1,799.89 -13.17 0.00 0.05 0.00 0.00 0.00 2,000.00 0.98 180.00 1,899.87 -14.69 0.00 0.06 0.00 0.00 0.00 2,070.15 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 2,100.00 0.98 180.00 2,099.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,210.17 0.98 180.00 2,210.00 -20.22 0.00 0.07 0.00 0.00 0.00 2,300.00 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,400.00 0.98 180.00 2,599.77 -25.19 0.00 0.09 0.00 0.00 0.00 2,500.00 0.98 180.00 2,699.77 -26.91 0.00 0.00 0.00	1,600.00	0.98	180.00	1,599.92	-9.74	0.00	0.03	0.00	0.00	0.00
1,800.00 0.98 180.00 1,799.89 -13.17 0.00 0.05 0.00 0.00 0.00 1,900.00 0.98 180.00 1,899.87 -14.89 0.00 0.05 0.00 0.00 0.00 2,000.00 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 2,010.00 0.98 180.00 2,099.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,100.00 0.98 180.00 2,199.83 -20.04 0.00 0.07 0.00 0.00 0.00 2,210.17 0.98 180.00 2,210.00 -20.22 0.00 0.07 0.00 0.00 0.00 2,210.17 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,500.00 0.98 180.00 2,599.77 -26.91 0.00 0.00 0.00	1,700.00	0.98	180.00	1,699.90	-11.46	0.00	0.04	0.00	0.00	0.00
1900.00 0.98 180.00 1899.87 -14.89 0.00 0.05 0.00 0.00 0.00 2,070.15 0.98 180.00 2,970.00 -17.81 0.00 0.06 0.00 0.00 0.00 Tansil 2,100.00 0.98 180.00 2,999.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,200.00 0.98 180.00 2,199.83 -20.04 0.00 0.07 0.00 0.00 0.00 2,210.17 0.98 180.00 2,219.83 -20.04 0.00 0.07 0.00 0.00 0.00 Yates 2,300.00 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,400.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,500.00 0.98 180.00 2,599.77 -26.61 0.00 0.09 0.00 0.00 0.00 2,600.00 0.98 180.00 2,699.76 -28.63 0.00	1,800.00	0.98	180.00	1,799.89	-13.17	0.00	0.05	0.00	0.00	0.00
2,000.00 0.98 180.00 1,999.86 -16.61 0.00 0.06 0.00 0.00 0.00 2,070.15 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 Tansil	1,900.00	0.98	180.00	1.899.87	-14.89	0.00	0.05	0.00	0.00	0.00
2,070.15 0.98 180.00 2,070.00 -17.81 0.00 0.06 0.00 0.00 0.00 Tansll 2,100.00 0.98 180.00 2,099.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,200.00 0.98 180.00 2,198.83 -20.04 0.00 0.07 0.00 0.00 0.00 2,210.17 0.98 180.00 2,299.81 -21.76 0.00 0.07 0.00 0.00 0.00 Yates 2,300.00 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,500.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,600.00 0.98 180.00 2,699.76 -28.63 0.00 0.11 0.00 0.00 0.00	2,000.00	0.98	180.00	1,999.86	-16.61	0.00	0.06	0.00	0.00	0.00
Tansil 2,100.00 0.98 180.00 2,099.84 -18.33 0.00 0.06 0.00 0.00 0.00 2,200.00 0.98 180.00 2,199.83 -20.04 0.00 0.07 0.00 0.00 0.00 2,210.17 0.98 180.00 2,210.00 -20.22 0.00 0.07 0.00 0.00 0.00 Yates 2,300.00 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 Z,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,600.00 0.98 180.00 2,699.73 -32.06 0.00 0.11 0.00 0.00 0.00	2,070.15	0.98	180.00	2.070.00	-17.81	0.00	0.06	0.00	0.00	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Tansil			•						
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2,210.17 0.98 180.00 2,210.00 -20.22 0.00 0.07 0.00 0.00 0.00 Yates 2,300.00 0.98 180.00 2,299.81 -21.76 0.00 0.08 0.00 0.00 0.00 2,400.00 0.98 180.00 2,399.80 -23.48 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,500.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.01 0.00 0.00 0.00 2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.11 0.00 0.00 0.00 2,600.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00	2,200.00	0.90	100.00	2,199.03	-20.04	0.00	0.07	0.00	0.00	0.00
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2,300.00 0.98 180.00 2,399.80 -23.48 0.00 0.08 0.00 0.00 0.00 2,400.00 0.98 180.00 2,399.80 -23.48 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,515.22 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,600.00 0.98 180.00 2,699.76 -28.63 0.00 0.11 0.00 0.00 0.00 2,800.00 0.98 180.00 2,999.73 -32.06 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 <	2 200 00	0.00	100.00	0.000.04	04.76	0.00	0.00	0.00	0.00	0.00
2,400.00 0.98 180.00 2,399.80 -23.48 0.00 0.08 0.00 0.00 0.00 2,500.00 0.98 180.00 2,499.79 -25.19 0.00 0.09 0.00 0.00 0.00 2,515.22 0.98 180.00 2,515.00 -25.46 0.00 0.09 0.00 0.00 0.00 Seven Rivers 2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,700.00 0.98 180.00 2,699.76 -28.63 0.00 0.11 0.00 0.00 0.00 2,800.00 0.98 180.00 2,799.74 -30.35 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 <td>2,300.00</td> <td>0.98</td> <td>180.00</td> <td>2,299.01</td> <td>-21.70</td> <td>0.00</td> <td>0.08</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	2,300.00	0.98	180.00	2,299.01	-21.70	0.00	0.08	0.00	0.00	0.00
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2,515.22 0.98 180.00 2,515.00 -25.46 0.00 0.09 0.00 0.00 0.00 Seven Rivers 2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,700.00 0.98 180.00 2,699.76 -28.63 0.00 0.10 0.00 0.00 0.00 2,800.00 0.98 180.00 2,799.74 -30.35 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 3,200.00 0.98 180.00 3,299.67 -38.93 0.00 0.13 0.00 <td>2,500.00</td> <td>0.98</td> <td>180.00</td> <td>2,499.79</td> <td>-25.19</td> <td>0.00</td> <td>0.09</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	2,500.00	0.98	180.00	2,499.79	-25.19	0.00	0.09	0.00	0.00	0.00
Seven Rivers 2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,700.00 0.98 180.00 2,699.76 -28.63 0.00 0.10 0.00 0.00 0.00 2,800.00 0.98 180.00 2,799.74 -30.35 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 2,899.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,200.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 <t< td=""><td>2,515.22</td><td>0.98</td><td>180.00</td><td>2,515.00</td><td>-25.46</td><td>0.00</td><td>0.09</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	2,515.22	0.98	180.00	2,515.00	-25.46	0.00	0.09	0.00	0.00	0.00
2,600.00 0.98 180.00 2,599.77 -26.91 0.00 0.09 0.00 0.00 0.00 2,700.00 0.98 180.00 2,699.76 -28.63 0.00 0.10 0.00 0.00 0.00 2,800.00 0.98 180.00 2,799.74 -30.35 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 0.00 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00	Seven Rive	ers								
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2,800.00 0.98 180.00 2,799.74 -30.35 0.00 0.11 0.00 0.00 0.00 2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 0.00 Queen 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.0	2,700.00	0.98	180.00	2,699.76	-28.63	0.00	0.10	0.00	0.00	0.00
2,900.00 0.98 180.00 2,899.73 -32.06 0.00 0.11 0.00 0.00 0.00 3,000.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 0.00 Queen 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.1	2,800.00	0.98	180.00	2,799.74	-30.35	0.00	0.11	0.00	0.00	0.00
2,300.00 0.98 180.00 2,999.71 -33.78 0.00 0.12 0.00 0.00 0.00 3,100.00 0.98 180.00 3,099.70 -35.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 Queen 3,200.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,300.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00	2 900 00	0.98	180.00	2 800 73	-32.06	0.00	0.11	0.00	0.00	0.00
3,100.00 0.98 180.00 3,099.70 -35.75 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.12 0.00 0.00 0.00 Queen 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 3,570.37 0.98 180.00 3,499.64 -43.57 0.00 0.15 0.00 0.00	2,500.00	0.30	100.00	2,033.73	-32.00	0.00	0.11	0.00	0.00	0.00
3,100.00 0.98 180.00 3,099.70 -33.50 0.00 0.12 0.00 0.00 0.00 3,135.31 0.98 180.00 3,135.00 -36.10 0.00 0.13 0.00 0.00 0.00 Queen 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00	3,000.00	0.90	100.00	2,999.71	-33.70	0.00	0.12	0.00	0.00	0.00
Gray String U.98 180.00 String -38.10 U.00 U.13 U.00	3,100.00	0.98	100.00	3,099.70	-35.50	0.00	0.12	0.00	0.00	0.00
Queen 3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00 0.00	3,135.31	0.98	180.00	3,135.00	-36.10	0.00	0.13	0.00	0.00	0.00
3,200.00 0.98 180.00 3,199.68 -37.21 0.00 0.13 0.00 0.00 0.00 3,300.00 0.98 180.00 3,299.67 -38.93 0.00 0.14 0.00 0.00 0.00 3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00 0.00	Queen									
3,300.000.98180.003,299.67-38.930.000.140.000.000.003,400.000.98180.003,399.65-40.650.000.140.000.000.003,500.000.98180.003,499.64-42.370.000.150.000.000.003,570.370.98180.003,570.00-43.570.000.150.000.000.00	3,200.00	0.98	180.00	3,199.68	-37.21	0.00	0.13	0.00	0.00	0.00
3,400.00 0.98 180.00 3,399.65 -40.65 0.00 0.14 0.00 0.00 0.00 3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00 0.00	3,300.00	0.98	180.00	3,299.67	-38.93	0.00	0.14	0.00	0.00	0.00
3,500.00 0.98 180.00 3,499.64 -42.37 0.00 0.15 0.00 0.00 0.00 0.00 3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00 0.00 0.00	3,400.00	0.98	180.00	3,399.65	-40.65	0.00	0.14	0.00	0.00	0.00
3,570.37 0.98 180.00 3,570.00 -43.57 0.00 0.15 0.00 0.00 0.00	3,500.00	0.98	180.00	3,499.64	-42.37	0.00	0.15	0.00	0.00	0.00
	3,570.37	0.98	180.00	3,570.00	-43.57	0.00	0.15	0.00	0.00	0.00

COMPASS 5000.14 Build 85



MS Energy Services Planning Report



Database:	EDM 5000.14 Conroe DB	Local Co-ordinate Reference:	Well 6H
Company:	ConocoPhillips	TVD Reference:	Well @ 4069.70usft (Trinidad 417)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	Well @ 4069.70usft (Trinidad 417)
Site:	Peridot 8 Federal	North Reference:	Grid
Weil:	6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	-	
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Gravburg		-							
3,600.00	0.98	180.00	3,599.62	-44.08	0.00	0:15	0.00	0.00	0.00
3 700 00	0.98	180.00	3:600 61	-45.80	0.00	0.16	0.00	0.00	0.00
3,700.00	0.98	180.00	3 799 59	-47.52	0.00	0.10	0.00	0.00	0.00
3 875 41	0.98	180.00	3 875 00	-48.81	0.00	0.17	0.00	0.00	0.00
San Andre	s		0,07 0,000		0.00	•••••	0.00	0.00	0.00
3,900,00	0.98	180.00	3 899 58	-49.23	0.00	0.17	0.00	0.00	0.00
4.000.00	0.98	180.00	3,999,56	-50.95	0.00	0.18	0.00	0.00	0.00
4 400 00	0.00	100.00	4 000 EE	E0 67	0.00	0.49	0.00	0.00	0.00
4,100.00	0.98	180.00	4,099.55	-52.07	0.00	0.10	0.00	0.00	0.00
4,200.00	0.90	180.00	4,199.55	-56 10	0.00	0.19	0.00	0.00	0.00
4,400.00	0.98	180.00	4.399.51	-57.82	0.00	0.20	0.00	0.00	0.00
4,500.00	0.98	180.00	4,499.49	-59.54	0.00	0.21	0.00	0.00	0.00
4 600 00	0.09	190.00	1 500 49	61.25	0.00	0.21	0.00	0.00	0.00
4,000.00	0.98	180.00	4,099.40	-62.97	0.00	0.21	0.00	0.00	0.00
4,727.08	0.98	180.00	4,726.54	-63.44	0.00	0.22	0.00	0.00	0.00
Begin 1.50	°/100' Drop		.,						
4.792.68	0.00	0.00	4,792,13	-64.00	0.00	0.22	1.50	-1.50	0.00
Begin Vert	ical Hold		• • • • • • •						
4,800.00	0.00	0.00	4,799.45	-64.00	0.00	0.22	0.00	0.00	0.00
4 900 00	0.00	0.00	4 899 45	-64.00	0.00	0.22	0.00	0.00	0.00
5 000 00	0.00	0.00	4 999 45	-64.00	0.00	0.22	0.00	0.00	0.00
5.042.68	0.00	0.00	5.042.13	-64.00	0.00	0.22	0.00	0.00	0.00
Begin 10.0	0°/100' Build								
5,050.00	0.73	269.80	5,049.45	-64.00	-0.05	0.27	10.00	10.00	0.00
5,100.00	5.73	269.80	5,099.36	-64.01	-2.87	3.09	10.00	10.00	0.00
5 150 00	10 73	269 80	5 148 83	-64.04	-10 02	10 25	10.00	10.00	0.00
5.200.00	15.73	269.80	5,197,48	-64.08	-21.46	21.69	10.00	10.00	0.00
5,250.00	20.73	269.80	5,244.96	-64.13	-37.10	37.33	10.00	10.00	0.00
5,300.00	25.73	269.80	5,290.89	-64.20	-56.82	57.04	10.00	10.00	0.00
5,350.00	30.73	269.80	5,334.93	-64.28	-80.46	80.69	10.00	10.00	0.00
5.400.00	35.73	269.80	5,376,74	-64.38	-107.86	108.08	10.00	10.00	0.00
5,407.79	36.51	269.80	5,383.03	-64.40	-112.45	112.67	10.00	10.00	0.00
Glorieta									
5,450.00	40.73	269.80	5,416.00	-64.49	-138.79	139.01	10.00	10.00	0.00
5,500.00	45.73	269.80	5,452.42	-64.61	-173.02	173.25	10.00	10.00	0.00
5,528.23	48.55	269.80	5,471.61	-64.68	-193.71	193.94	10.00	10.00	0.00
Paddock									
5,550.00	50.73	269.80	5,485.71	-64.74	-210.31	210.53	10.00	10.00	0.00
5,600.00	55.73	269.80	5,515.63	-64.88	-250.35	250.57	10.00	10.00	0.00
5,650.00	60.73	269.80	5,541.95	-65.03	-292.84	293.07	10.00	10.00	0.00
5,700.00	65.73	269.80	5,564.46	-65.19	-337.47	337.69	10.00	10.00	0.00
5,750.00	70.73	269.80	5,583.00	-65.35	-383.89	384.11	10.00	10.00	0.00
5,800.00	75.73	269.80	5,597.42	-65.52	-431.75	431.97	10.00	10.00	0.00
5,850.00	80.73	269.80	5,607.61	-65.69	-480.68	480.91	10.00	10.00	0.00
5,900.00	85.73	269.80	5,613.50	-65.86	-530.32	530.54	10.00	10.00	0.00
5,952.68	91.00	269.80	5,615.00	-66.05	-582.95	583.18	10.00	10.00	0.00
Begin 91.0	0° Lateral								
6,000.00	91.00	269.80	5,614.18	-66.22	-630.27	630.50	0.00	0.00	0.00
6,100.00	91.00	269.80	5,612.43	-66.57	-730.25	730.48	0.00	0.00	0.00
6,200.00	91.00	269.80	5,610.69	-66.92	-830.24	830.47	0.00	0.00	0.00
6,300.00	91.00	269.80	5,608.94	-67.27	-930.22	930.45	0.00	0.00	0.00
6,400.00	91.00	269.80	5,607.20	-67.62	-1,030.20	1,030.43	0.00	0.00	0.00

COMPASS 5000.14 Build 85





Planning Report

Database:	EDM 5000.14 Conroe DB	Local Co-ordinate Reference:	Well 6H
Company:	ConocoPhillips	TVD Reference:	Well @ 4069.70usft (Trinidad 417)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	Well @ 4069.70usft (Trinidad 417)
Site:	Peridot 8 Federal	North Reference:	Grid
Well:	6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	. –	
Design:	Design #1		

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
6,500.00	91.00	269.80	5,605.45	-67.97	-1,130.19	1,130.42	0.00	0.00	0.00
6 600 00	91.00	269.80	5.603.70	-68.32	-1.230.17	1.230.40	0.00	0.00	0.00
6 700 00	91.00	269.80	5,601,96	-68.68	-1.330.16	1.330.39	0.00	0.00	0.00
6 800 00	91.00	269.80	5 600 21	-69.03	-1 430 14	1 430 37	0.00	0.00	0.00
6,000.00	91.00	269.80	5 598 47	-69.38	-1 530 13	1 530 36	0.00	0.00	0.00
7 000 00	91.00	269.80	5 596 72	-69.73	-1 630 11	1 630 34	0.00	0.00	0.00
7,000.00	51.00	203.00	0,000.72	-05.75	-1,000.11	1,000.04	0.00	0.00	0.00
7,100.00	91.00	269.80	5,594.98	-70.08	-1,730.09	1,730.33	0.00	0.00	0.00
7,200.00	91.00	269.80	5,593.23	-70.43	-1,830.08	1,830.31	0.00	0.00	0.00
7,300.00	91.00	269.80	5,591.49	-70.79	-1,930.06	1,930.30	0.00	0.00	0.00
7,400.00	91.00	269.80	5,589.74	-71.14	-2,030.05	2,030.28	0.00	0.00	0.00
7,500.00	91.00	269.80	5,588.00	-71.49	-2,130.03	2,130.27	0.00	0.00	0.00
7.600.00	91.00	269.80	5.586.25	-71.84	-2.230.01	2.230.25	0.00	0.00	0.00
7,700.00	91.00	269.80	5,584,51	-72.19	-2.330.00	2.330.24	0.00	0.00	0.00
7 800 00	91.00	269.80	5,582,76	-72 54	-2,429,98	2,430,22	0.00	0.00	0.00
7 900 00	91.00	269.80	5 581 02	-72 89	-2 529 97	2 530 21	0.00	0.00	0.00
8 000.00	91.00	269.80	5.579.27	-73.25	-2.629.95	2,630,19	0.00	0.00	0.00
0,000.00	0.100		5,577,50	70.00	0,700,04	_,	0.00	0.00	0.00
8,100.00	91.00	269.80	5,577.53	-73.60	-2,729.94	2,730.18	0.00	0.00	0.00
8,200.00	91.00	269.80	5,5/5./8	-73.95	-2,829.92	2,830.16	0.00	0.00	0.00
8,300.00	91.00	269.80	5,574.04	-/4.30	-2,929.90	2,930.15	0.00	0.00	0.00
8,400.00	91.00	269.80	5,572.29	-/4.65	-3,029.89	3,030.13	0.00	0.00	0.00
8,500.00	91.00	269.80	5,570.55	-75.00	-3,129.87	3,130.11	0.00	0.00	0.00
8,600.00	91.00	269.80	5,568.80	-75.35	-3,229.86	3,230.10	0.00	0.00	0.00
8,700.00	91.00	269.80	5,567.05	-75.71	-3,329.84	3,330.08	0.00	0.00	0.00
8,800.00	91.00	269.80	5,565.31	-76.06	-3,429.82	3,430.07	0.00	0.00	0.00
8,900.00	91.00	269.80	5,563.56	-76.41	-3,529.81	3,530.05	0.00	0.00	0.00
9,000.00	91.00	269.80	5,561.82	-76.76	-3,629.79	3,630.04	0.00	0.00	0.00
0 100 00	Q1 00	260.80	5 560 07	-77 11	-3 720 78	3 730 02	0.00	0.00	0.00
9,100.00	01.00	203.00	5 558 33	-77.46	-3,725.70	3,830,01	0.00	0.00	0.00
9,200.00	01.00	203.00	5,556,58	-77.92	-3,029.70	3 020 00	0.00	0.00	0.00
9,300.00	01.00	260.80	5 554 84	-78.17	-0,525.75	4 020 08	0.00	0.00	0.00
9,400.00	01.00	269.80	5 553 00	-78.52	-4,029.73	4 120 06	0.00	0.00	0.00
5,500.00	31.00	203.00	0,000.00	-70.52		4,120.00	0.00	0.00	0.00
9,600.00	91.00	269.80	5,551.35	-78.87	-4,229.70	4,229.95	0.00	0.00	0.00
9,700.00	91.00	269.80	5,549.60	-79.22	-4,329.68	4,329.93	0.00	0.00	0.00
9,800.00	91.00	269.80	5,547.86	-79.57	-4,429.67	4,429.92	0.00	0.00	0.00
9,900.00	91.00	269.80	5,546.11	-79.92	-4,529.65	4,529.90	0.00	0.00	0.00
10,000.00	91.00	269.80	5,544.37	-80.28	-4,629.63	4,629.89	0.00	0.00	0.00
10.100.00	91.00	269.80	5,542.62	-80.63	-4,729.62	4,729.87	0.00	0.00	0.00
10,200.00	91.00	269.80	5,540.88	-80.98	-4,829.60	4,829.86	0.00	0.00	0.00
10,300.00	91.00	269.80	5,539.13	-81.33	-4,929.59	4,929.84	0.00	0.00	0.00
10,400.00	91.00	269.80	5,537.39	-81.68	-5,029.57	5,029.83	0.00	0.00	0.00
10,500.00	91.00	269.80	5,535.64	-82.03	-5,129.56	5,129.81	0.00	0.00	0.00
10 600 00	91.00	269.80	5 533 90	-82 38	-5 229 54	5 229 80	0.00	0.00	0.00
10,000.00	01.00	260.00	5,530.00	-82.50	-5,220.57	5 329 78	0.00	0.00	0.00
10,700.00	01.00	203.00	5,532.15	-02.74	-5,323.32	5 429 76	0.00	0.00	0.00
10,000.00	01.00	260.80	5 528 66	-83.44	-5 520 40	5 520 75	0.00	0.00	0.00
11,000,00	01 00	269.80	5,526,00	-03.44	-5 629 48	5 629 73	0.00	0.00	0.00
1,000.00	51.00	203.00	0,020.01	-03.73	-0,023.40	0,020.10	0.00	0.00	0.00
11,100.00	91.00	269.80	5,525.17	-84.14	-5,729.46	5,729.72	0.00	0.00	0.00
11,200.00	91.00	269.80	5,523.42	-84.49	-5,829.44	5,829.70	0.00	0.00	0.00
11,300.00	91.00	269.80	5,521.68	-84.84	-5,929.43	5,929.69	0.00	0.00	0.00
11,400.00	91.00	269.80	5,519.93	-85.20	-6,029.41	6,029.67	0.00	0.00	0.00
11,500.00	91.00	269.80	5,518.19	-85.55	-6,129.40	6,129.66	0.00	0.00	0.00
11,600,00	91.00	269.80	5.516.44	-85.90	-6.229.38	6.229.64	0.00	0.00	0.00
11.700.00	91.00	269.80	5,514,70	-86.25	-6.329.37	6,329.63	0.00	0.00	0.00
11,800.00	91.00	269.80	5,512.95	-86.60	-6,429.35	6,429.61	0.00	0.00	0.00

COMPASS 5000.14 Build 85





Planning Report

Well: Wellbore: Design:	6H Wellbore #1 Design #1	Survey Calculation Method:	Minimum Curvature
Site:	Peridot 8 Federal	North Reference:	Grid
Company: Project:	ConocoPhillips Lea County, New Mexico (NAD 27)	TVD Reference: MD Reference:	Well @ 4069.70usft (Trinidad 417) Well @ 4069.70usft (Trinidad 417)
Database:	EDM 5000.14 Conroe DB	Local Co-ordinate Reference:	Well 6H

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
11,900.00	91.00	269.80	5,511.21	-86.95	-6,529.33	6,529.60	0.00	0.00	0.00
12,000.00	91.00	269.80	5,509.46	-87.31	-6,629.32	6,629.58	0.00	0.00	0.00
12,100.00	91.00	269.80	5.507.72	-87.66	-6.729.30	6.729.57	0.00	0.00	0.00
12,200,00	91.00	269.80	5.505.97	-88.01	-6.829.29	6.829.55	0.00	0.00	0.00
12,300.00	91,00	269.80	5,504,23	-88.36	-6.929.27	6.929.54	0.00	0.00	0.00
12,400.00	91.00	269.80	5,502,48	-88,71	-7.029.25	7.029.52	0.00	0.00	0.00
12,500.00	91.00	269.80	5,500.74	-89.06	-7,129.24	7,129.51	0.00	0.00	0.00
12.600.00	91.00	269.80	5,498,99	-89.41	-7.229.22	7.229.49	0.00	0.00	0.00
12,700.00	91.00	269.80	5.497.25	-89.77	-7.329.21	7.329.48	0.00	0.00	0.00
12,800.00	91.00	269.80	5.495.50	-90.12	-7.429.19	7.429.46	0.00	0.00	0.00
12,900.00	91.00	269.80	5.493.75	-90.47	-7.529.17	7.529.44	0.00	0.00	0.00
12,991.37	91.00	269.80	5,492,16	-90.79	-7.620.53	7.620.80	0.00	0.00	0.00
PBHL			•						

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Peridot 8 Fedu - plan hits target c - Point	0.00 enter	0.00	5,492.16	-90.79	-7,620.53	673,992.29	659,812.60	32° 51' 6.505 N	103° 48' 46.565 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
900.00	9 00.00	13 3/8"		13-3/8	17-1/2
12,991.37	5,492.16	5 1/2"		5-1/2	6

Formations

Measured Depth (usft)	Vertical Depth (usft)		Name	Lithology	Dip (°)	Dip Direction (°)
855.00	855.00	Rustler			-1.00	269.80
990.00	990.00	Salado			-1.00	269.80
2,070.15	2,070.00	Tansil			-1.00	269.80
2,210.17	2,210.00	Yates			-1.00	269.80
2,515.22	2,515.00	Seven Rivers			-1.00	269.80
3,135.31	3,135.00	Queen			-1.00	269.80
3,570.37	3,570.00	Grayburg			-1.00	269.80
3,875.41	3,875.00	San Andres			-1.00	269.80
5,407.79	5,383.03	Glorieta			-1.00	269.80
5,528.23	5,471.61	Paddock			-1.00	269.80

8/18/2017 11:45:37AM





Planning Report

Database:	EDM 5000.14 Conroe DB	Local Co-ordinate Reference:	Well 6H
Company:	ConocoPhillips	TVD Reference:	Well @ 4069.70usft (Trinidad 417)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	Well @ 4069.70usft (Trinidad 417)
Site:	Peridot 8 Federal	North Reference:	Grid
Well:	6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	-	
Design:	Design #1		

Plan Annotations

Measured	Vertical	Local Coor	dinates		
Depth De (usft) (u	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
 1,000.00	1,000.00	0.00	0.00	KOP, 1.50°/100' Build	
1,065.59	1,065.59	-0.56	0.00	Hold 0.98° Inc, 180.00° Azm	
4,727.08	4,726.54	-63.44	0.00	Begin 1.50°/100' Drop	
4,792.68	4,792.13	-64.00	0.00	Begin Vertical Hold	
5,042.68	5,042.13	-64.00	0.00	Begin 10.00°/100' Build	
5,952.68	5,615.00	-66.05	-582.95	Begin 91.00° Lateral	
12,991.37	5,492.16	-90.79	-7,620.53	PBĂL	

Peridot 8 Federal 6H



SPECIFICATIONS

FLOOR: 3/16" PL one piece CROSS MEMBER: 3 x 4.1 channel 16" on center

٠. .

WALLS: 3/16" PL solid welded with tubing top, insi de liner hooks

DOOR: 3/16" PL with tubing frame FRONT: 3/16" PL slant formed

PICK U P: Standard cable with $2^{\circ} \times 6^{\circ} \times 1/4^{\circ}$ rails, guisset at each crossmember WHEELS: 10 DIA x 9 long with rease fittings

DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch GASKE TS: Extruded tubber seal with metal retainer's

WELDS: All welds continuous except substructurie crossmembers

FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22-11' long (21'-8" inside), 99" widle (88" inside), see drawing for height OPTIONS: Steel grit blast and special paint, <u>AmpliroII. Heil and Dino pickup</u>

ROOF: 3/16° PL root panels with tubing and channel support frame

LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising

ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings

OPENING: (2) 60" x 82" openings with 8" divider centered on

container

LATCH :(2) independent ratchet binders with chains per lid

GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	В
20 YD	41	53
25 YD	53	65
30 YD	65	77



31



H₂S Contingency Plan April 2018

H₂S Contingency Plan Holders:

Attached is an H_2S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any question regarding this plan, please call Matt Oster (830) 583-1297, or Ryan Vacarella (985) 217-7594.

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II. Scope

III. Procedures

IV. Emergency Equipment and Maintenance

Emergency Equipment Suppliers General Information H2S Safety Equipment and Monitoring Systems

- V. Emergency Call List
- VI. Public/Media Relations
- VII. Pubic Notification/Evacuation
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HYDROGEN SULFIDE (H₂S) OPERATIONS

Contingency Plan For Permian Drilling Operations

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ConocoPhillips Company Mid-Continent Business Unit Permian Asset Area

I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H₂S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H₂S release. Release of H₂S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H2S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H₂S could exist under specific weather conditions.

III. PROCEDURES

First Employee on Scene

_____ Assess the incident and ensure your own safety.

Note the following:

—— Location of the incident.

____ Nature of the incident.

— Wind direction and weather conditions.

_____ Other assistance that may be needed.

- _____ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.
- Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

Secure the site.

_____ Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

- ----- Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.
- Follow the principles of the D.E.C.I.D.E. process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

DETECT the problem ESTIMATE likely harm without intervention CHOOSE response objectives IDENTIFY action options DO the best option EVALUATE the progress

- ____ Complete the Preliminary Emergency Information Sheet (refer to Section VIII: Forms/Reports).
- _____ Call your supervisor (refer to Section V: Emergency Call List).
- Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).
- Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).
- Ensure site security.
 - Set barricades and /or warning signs at or beyond the calculated 100 ppm H₂S radius of exposure (ROE). All manned barricades must be equipped with an H₂S monitor and a 2-way radio.

---- Set roadblocks and staging area as determined.

— Establish the Incident Command Structure by designating appropriate onscene response personnel as follows:

Recording Secretary	
Safetv/Medical Officer	
Decontamination Officer	

- Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports).
- If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.
- Perform a Site Characterization and designate the following:

Hot Zone	 Hazardous Area
Warm Zone	 Preparation & Decontamination Area
Cold Zone	 Safe Area

<u>AND</u>

On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area (Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (Warm Zone)

—— Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

Coordinate the attempt to stop the release of H₂S. You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used ONLY AS A LAST RESORT. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

____ Once the emergency is over, return the situation to normal by:

Confirming the absence of H_2S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).

Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)

Report completion of the cleanup to the Asset Environmentalist. (Environmentalist will report this to the proper State and/or Federal agencies.)

Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

• Company employee receiving occupational injury or illnesses.

• Company employee involved in a vehicle accident while driving a company vehicle.

• Company property that is damaged or lost.

• Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.

- Hazardous Material Spill/Release Report Form
- Emergency Drill Report

Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures <u>Responsibility</u>

In the event of a release of potentially hazardous amounts of H2S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

- 1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
- 2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
- 3. Advise each contractor, service company, and all others entering the site that H2S may be encountered and the potential hazards that may exist.
- 4. Authorize the evacuation of local residents if H2S threatens their safety.
- 5. Keep the number of persons on location to a minimum during hazardous operations.
- 6. Direct corrective actions to control the flow of gas.
- 7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.

This should be used ONLY AS A LAST RESORT.

IV. EMERGENCY EQUIPMENT and MAINTENANCE

Emergency Equipment Suppliers United Safety Safety Equipment 432.400.2889 **Gryphon Oilfield Services** Safety Equipment 432.550.0600 DXP/ Safety International - Odessa, Tx. H₂S monitors 432.580.3770 Breathing air includes cascade systems First aid and medical supplies Safety equipment H2S Specialist Total Safety US Odessa, Tx/ Hobs, NM 432.561.5049 Odessa H₂S monitors 575.392.2973 Hobbs Breathing air includes cascade systems First aid and medical supplies Safety equipment 575.393.3093 DXP/ Indian Fire & Safety – Hobbs, NM H₂S monitors Breathing air including cascade systems trailer mounted 30 minute air packs Safety Equipment TC Safety – Odessa, Tx. H₂S monitors 432.413.8240 Cascade systems trailer mounted 30 minute air packs Safety Equipment H2S Specialist Secorp Industries – Odessa, Tx. 432.614.2565 H2S Monitor Systems **Cascade Systems** H2S Specialist H2S, CPR, First Aid Training

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H₂S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H_2S areas shall have received training on the hazards, characteristics, and properties of H_2S , and on procedures and safety equipment applicable for use in H_2S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

3 – Fixed H2S sensors located as follows:

- 1 on the rig floor
- 1 at the Bell Nipple
- 1 at the Shale Shaker or Flowline

1 – <u>Entrance Warning Sign</u> located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

- 2 Windsocks that are clearly visible.
- 1 <u>Audible</u> warning system located on rig floor
- 2 <u>Visual</u> warning systems (Beacon Lights)

1 – Located at the rig floor

1 – Located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

2 - Briefing areas clearly marked

2 - SCBA's at each briefing area

1- SCBA located at the Drilling Reps office

<u>Note:</u>

1. All SCBA's must be positive pressure type only!!!

2. All SCBA's must either be <u>Scott or Drager</u> brand.

3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.

5 – Emergency Escape Paks located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 - <u>Tri or Quad gas monitor</u> located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a priority list of personnel to contact in an emergency situation.

Supervisory Personnel	Office No.	Cellphone
Drilling Supt. (Unconventional)		
Scott Nicholson	432.688.9065	432.230.8010
Field Supervisors:		
Clint Case	432.688.6878	940.231.2839
Patrick Wellman	432.688.9183	432.215.7079
Safety Support:		
Matt Oster	830.583.1245	601.540.6988
Ryan Vaccarella	985.217.7594	NA
Operations Support:		
Dale Rowell	NA	830.400.2006
Supt Operations-SENM		
Mike Neuschafer-Delaware Basin	432.688.6834	713.419.9919
Sean Robinson-SENM	575.391.3147	575.390.8873
MCBU HSE Permian Supervisor		
Chris Boggs	432.688.6806	907.903.5815
Manger GCBU/MCBU D & C		
Seth Crissman	832.486.6191	832.513.9308

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas Railroad Commission (District 8) Midland, Texas	Office: 432.684.5581
New Mexico Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240-1980	Office:575.393.6161
Bureau of Land Mngt.	

Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220

Office: 575.234.5972 Fax: 575.885.9264

EMERGENCY CALL LIST: Local Officials

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Note: The LIS should include any area residents (i.e. rancher's house, etc)

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and <u>only with facts</u>, do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:

Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

 <u>Public Notification</u> – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person <u>first</u> observing the leak should take <u>immediate</u> steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

 Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H_2S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

- I. Incident Log
- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness Report of Accident-Public Contractor Report of Loss or Damage to Company Property Report of Automotive Incident

Peridot 8 Federal 6H



1. Geologic Formations

KB TVD of target	5615'	Pilot hole depth	NA
KB MD at TD:	12991'	Deepest expected fresh water:	855'

Permian Basin

Formation	KB TVD (ft)	Elevation KB (ft)	Water/Mineral Bearing/Target Zone	Hazards*
Rustler	855	3214	Fresh Water	
Salado	990	3079	Brackish Water	
Tansill	2070	1999	Salt	
Yates	2210	1859	Salt Water	
Seven Rivers	2515	1554	Oil/Gas	
Queen	3135	934	Oil/Gas	
Grayburg	3570	499	Oil/Gas	
San Andres	3875	194	Oil/Gas	
Glorieta	5385	-1316	Oil/Gas	
Paddock	5475	-1406	Target	
Land Pt / TD	5615	-1546	Target	

2. Casing Program

	3 strings casing design									
Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Pipe	SF Joint
Size	From	To	Size	(lbs)			Collapse	Burst	Tensile	Tensile
17.5"	0	885	13.375"	54.5	J55	STC/BTC	2.89	6.98	17.7	10.7
12.25"	0	2250	9.625"	40	J55	LTC/BTC	2.20	3.38	7.00	5.78
8.75"	0	5200	7"	29	L80	LTC/BTC	2.88	3.35	4.48	3.89
8.75"	5200	12991	5.5"	20	L80	LTC/BTC	3.36	3.50	2.99	3.36
				BLM N	Minimum 3	Safety Factor	1.125	1	1.6 Dry	1.6 Dry
						-			1.8 Wet	1.8 Wet

- Bring cement from 5-1-2" casing shoe to lap inside 9-5/8" casing shoe.
- Notify BLM if additional unplanned stages of Cement or Remediate with Bradenhead Squeeze becomes necessary.

Openhole Sliding Sleeves Completion Option

- Option to run Openhole Sliding Sleeves, cement 7" production string thru a stage tool below the XO joint and leave 5-1/2" casing string below the Glorieta formation uncemented with packers & sleeves from landing point to TD.
- Notify BLM if additional unplanned stages of Cement or Remediate with Bradenhead Squeeze becomes necessary.

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

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

2. Cementing Program

		0					
Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H20 gal/sk	Vol ft3	500# Comp. Strength (hours)	Slurry Description
Surf.	500	13.5	1.68	8.94	840	7	Lead: Class C + 4.0% Bentonite + 0.2% Anti-Foam + 2.0% CaCl2 +0.125lb/sk LCM + 0.1% Dispersant
	400	14.8	1.35	6.38	540	7	Tail: Class C + 0.2% Anti-Foam + 0.1% Lost Circ Control + 2 lbs/bbl CemNET (losses Control)
Inter.	450	11.5	2.29	10.72	1031	17	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 2.0% Expanding + 0.15% Viscosifier + 1.3% Retarder.
	300	13.5	1.29	4.81	387	7	Tail: Class C + 1% Extender + 3 lb/sk Extender + 0.2% Anti- Foam + 0.1% Dispersant + 13 lb/sk LCM + 0.5% Fluid Loss + 0.7% Retarder
Prod.	650	11.0	3.2	19.25	2080	17	Lead: Class C + 6% Extender + 10% Gas Migration Control + 2% Sodium Metasilicate (dry) + 1% Cement Bonding Agent + 3% Aluminum Silicate + 0.125 lb/sx Cello Flake + 3 lb/sx LCM-1
Prod – Cased Hole Option	1900	14.0	1.37	6.48	2603	7	Tail: Class C + 3lb/sk LCM + 1.5% Fluid Loss + 0.1% + 1%Sodium Metasilicate (dry) + 1.5% Fluid Loss Control

If additional unplanned stages of cementing are necessary, the contingency stage tool will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

Lab reports with recipe and the 500 psi compressive strength time for the cement will be onsite for review.

3 strings casing cement design					
Casing String	TOC Lead	TOC Tail	% Excess		
Surface	0'	585'	>100%		
Intermediate	0'	1750'	>100%		
Production	<1700'	5200'	>30%		

Cement excess will be adjusted based on actual hole condition like losses or fluid caliper data if have.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	~	Tested to:
			Annular	x	50% of working pressure
			Blind Ram		
8-3/4"	13-5/8"	3M/5M	Pipe Ram		3 000 mai
			Double Ram	ı x	3,000 psi
			Other*		

*Specify if additional ram is utilized.

Note: A 13-5/8" BOPE will be utilize in the 8-3/4" hole section depending on availability and Rig Substructure Clearance.

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.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
x	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. If yes, specs and hydrostatic test certification will be available in the company man's trailer and on the rig floor.
	N Are anchors required by manufacturer?
x	A multibowl wellhead is being used. 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.
	See attached schematic.

5. Mud Program

	3 strings casing mud program						
De	pth	Туре	Weight (ppg)	Viscosity	Water	PH	
From	То			-	Loss		
0	Surf. shoe	FW Gel	8.5-9.0	28-40	N/C	N.C.	
Surf. Shoe	Inter. shoe	Saturated Brine	10.0	28-32	N/C	9-10.5	
Inter. shoe	TD	Cut-Brine	8.6-10.0	28-40	N/C	9-10.5	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.		
X	Will run GR/CNL 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.		
	Drill stem test? If yes, explain		
	Coring? If yes, explain		

Additional logs planned		Interval	
	Resistivity		
	Density, GR, BHC		
	CBL		
X	Mud log		
	PEX		

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	2815 psi	
Abnormal Temperature	No – 100°	

• Mitigation measure for abnormal conditions - Loss of circulation is a possibility in the horizons below the Top of Grayburg. We expect that normal Loss of Circulation Material will be successful in healing any such loss of circulation events.

Gas detection equipment and pit level flow monitoring equipment will be on location. A flow paddle will be installed in the flow line to monitor relative amount of mud flowing in the non-pressurized return line. Mud probes will be installed in the individual tanks to monitor pit volumes of the drilling fluid with a pit volume totalizer. Gas detecting equipment and H2S monitor alarm will be installed in the mud return system and will be monitored. A mud gas separator will be installed and operable before drilling out from the Surface Casing. The gases shall be piped into the flare system. Drilling mud containing H2S shall be degassed in accordance with API RP-49, item 5.14. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. NO. Will be pre-setting casing? If yes, describe. NO.

Attachments:

Attachment#1:	Directional Plan
Attachment#2:	Wellbore Casing & Cementing Schematic
Attachment#3:	Wellhead Schematic
Attachment #4:	BOP Schematics
Attachment #5:	Choke Schematic
Attachment #6:	Rig Layout
Attachment #7:	H2S Contingency Plan



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS
LEASE NO.:	NMLC064149
WELL NAME & NO.:	6H- PERIDOT 8 FEDERAL
SURFACE HOLE FOOTAGE:	1586'/N & 2635'/E
BOTTOM HOLE FOOTAGE	1650'/N & 330'/W
LOCATION:	Section.8.,T17S., R.32E., NMP
COUNTY:	LEA County, New Mexico

COA

H2S	• Yes	C No	
Potash	• None	C Secretary	C R-111-P
Cave/Karst Potential	د Low		High
Variance	C None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	Both
Other	☐ 4 String Area	Capitan Reef	F WIPP

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated **500** feet prior to drilling into the **Grayburg** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 925 feet (a minimum of 25 feet 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.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</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.

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- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the $7 \times 5 \frac{1}{2}$ inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

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:

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

Option 2:

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 3,000 (3M) 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)

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> <u>on the sign.</u>

Well Name:

Operator shall submit a sundry to add 'Com' to the well name.

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

Lea County

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 (one log per well pad is acceptable) 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

- 1. 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 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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.

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- 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.
- 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: The flex line must meet the requirements of API 16C. 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. 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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- 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
 - 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. 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.
 - f. 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. This test shall be performed prior to the test at full stack pressure.
 - g. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

NMK1152019

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