rm 3160-3 (August 1999)

# UNITED STATES OCD-ARTESIA DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

BUREAU OF LAND	MANAGEMENT	NMNM70333		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name	
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement,	Name and No.	
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Oth		8. Lease Name and Well No. PEAKVIEW FEDERAL		
2. Name of Operator Contact:  CONOCOPHILLIPS  3: P O BOX 2197 WL3 #6108  HOUSTON TX 77252-2197	DEBORAH MARBERRY ()  Conce ph. 11, ps. can  36. Phone No. (include area code)  Ph: 832.486.2326  Fx: 832.486.2764	10. Field and Pool, or Explor	-34196 atory	
4. Location of Well (Report location clearly and in accorded		11. Sec., T., R., M., or Blk. a	nd Survey or Area	
At surface NESE 2250FSL 1175FEL At proposed prod. zone	R-111-POTASH	Sec 35 T21S R30E M	-	
14. Distance in miles and direction from nearest town or post	office* RECEIVED	12. County or Parish EDDY	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. of Acres in Lease MAY 0 6 2005	17. Spacing Unit dedicated to 40.00	o this well	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7800 MD	20. BLM/BIA Bond No. on f	ĭle	
21. Elevations (Show whether DF, KB, RT, GL, etc. 3238 GL	22. Approximate date work will start 10/31/2004	23. Estimated duration		
	24. Attachments CARLSB.	AD CONTROLLED WAT	ER BASIN	
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to t	this form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	Item 20 above).  Em Lands, the 5. Operator certification	ons unless covered by an existing	,	
25. Signature (Electronic Submission)	Name (Printed/Typed) DEBORAH MARBERRY		Date 07/13/2004	
Title CONTRACTS				
Approved by (Signature esse J. Juen	Name (Printed/Typed) /s/ Jesse J. J	uen ,	Date MAY - 2 2005	
ACTINGSTATE DIRECTOR	Office NM STATE OFFICE			
Application approval does not warrant or certify the applicant he operations thereon.  Conditions of approval, if any, are attached.		PROVAL FOR 1 Y		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any person knowingly and willfully to tions as to any matter within its jurisdiction.	make to any department or ago	ency of the United	
Additional Operator Remarks (see next page)		<del></del>		

Electronic Submission #28873 verified by the BLM Well Information System For CONOCOPHILLIPS, sent to the Carlsbad Committed to AFMSS for processing by LINDA ASKWIG on 07/15/2004 (04LA0546AE)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

NSL- SO87

ATTACHED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

Copies To Appropriate District		New Mex			Form C-103
Astrict I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals	and Natur	al Resources	WELL API NO.	May 27, 2004
District II	OIL CONSERV	LATION	DIVISION	WEEL AIT NO.	
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South			5. Indicate Type	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV		e, NM 87		STATE  6. State Oil & Ga	FEE as Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505					10.
SUNDRY NOTI	CES AND REPORTS OF			7. Lease Name o	or Unit Agreement Name DERAL
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)					
1. Type of Well: Oil Well	Gas Well X Other	REC	CEIVEL	8. Well Number	
<ol><li>Name of Operator CONOCOPH</li></ol>	HILLIPS CO.		2 3 2005	9. OGRID Numb	ber 217817
3. Address of Operator P.O. BOX	X 2197 WL3 6108		WHIEDW	10. Pool name or	r Wildcat
HOUSIC	N, TX 77252	A A A A	F 88 V 9 533 57 7	CABIN LAKE	DELAWARE
4. Well Location Unit Letter I:	2340 feet from the	SOUTH	line and 13	25 feet fro	om the EAST line
Section 35	Township 219	<u> </u>	ige 30E	NMPM	CountyEDDY COUNTY
	11. Elevation (Show what 3238 GL		<del>-</del>		
it or Below-grade Tank Application 🗌 o			. 1000		1000
	ater_100-2000ance from nea				face water > 1000
it Liner Thickness: 12 mil				onstruction Material	
12. Check A	Appropriate Box to In	dicate Na	ture of Notice,	Report or Other	· Data
NOTICE OF IN				SEQUENT RE	
PERFORM REMEDIAL WORK   TEMPORARILY ABANDON	PLUG AND ABANDON CHANGE PLANS	<b>'</b>	REMEDIAL WOR	<del></del>	ALTERING CASING  P AND A
PULL OR ALTER CASING			CASING/CEMEN		
OTHER:pit construction		(X)	OTHER:		
13. Describe proposed or comp of starting any proposed we		y state all p	ertinent details, an		tes, including estimated date ram of proposed completion
or recompletion. ConocoPhillips proposes to constru	ict a lined (12 mil) drill pi	it as per the	NMOCD guidelin	nes. We anticipate	closure as per the
guidelines.	1		3	•	1
			AS A CONDITION (	OF APPROVAL, A DET	AILED CLOSURE PLAN
			MUST BE APPRO	VED BEFORE CLOSUI	RE MAY COMMENCE.
hereby certify that the information	above is true and comple	te to the beguidelines [X	st of my knowledg	ge and belief. I furth	ner certify that any pit or below-
IGNATURE Leborali	$\gamma \wedge \lambda = I$	_	GULATORY ANA		DATE 06/20/2005
ype or print name DEBORAH MA	ARBERRY	E-mail add	lress deborah mar	berry@conoconbiff	iplephome No. (832)486-2326
or State Use Only		2 man add			######################################

APPROVED BY:\_\_\_\_Conditions of Approval (if any):

·DISTRICT I 1685 N. French Dr., Hobbs, NM 88240 DISTRICT II gii South First, Artesia, NM 88210

DISTRICT III

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

# State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Astec, NM 87410 DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

### OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Code 31137 PEAKVIEW FEDERAL  OGRID No. 217817 Operator Name ConocoPhillips Surface Location	Well Num 3 Elevati 3238 est line	County
217817 ConocoPhillips Surface Location	3238	County
	- 1	_
	- 1	_
UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/We	AST	
I 35 21 S 30 E 2250 SOUTH 1175 EA		EDDY
Bottom Hole Location If Different From Surface		
UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/We	est line	County
<u> </u>		<del></del>
Dedicated Acres Joint or Infill Consolidation Code Order No.		
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN COLOR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	NSOLIDA	TED
OPERATOR CER	TIFICAT	ION
Jeborah Marbe Printed Name Requilatory An Title 03/09/2004 Date  SURVEYOR CER I hareby cartify that the on this plat was pletted are this plat was pletted are this plat was pletted are the transport of the best of FERRANT. LAT - N32*26'04.7" LONG - W103*50'47.5  Date Suffred Surveys made by represent the the best of Professional Surveys Profes	TIFICAT	ION on shown notes of under my true and
Certificate R	VEYS	7977



## **PROJECT PROPOSAL - New Drill / Sidetrack**

### **Midland Business Unit**

### **PEAKVIEW FEDERAL 3**

Lease:					AFE #:						AFE \$:	
Field Name: CABI	N LAKE		Rig:				State:	NM C	ounty: EDD	Υ	API #:	
Geoscientist: Wilk	e, Nathai	n A	Phone:	832 486 2	367	Prod.	Engineer:	Lowde	r, Jack T	Pl	none: 43	32-368-1609
Res. Engineer: Lov	we, Robe	rt	Phone:	832-486-2	145	Proj. i	Field Lead:	Deen,	Larry E.	Pi	none: 8-	676-5555
			(* 17) Žijo						ži ži			
Zone	Zone Nam	10										
R45324	DELAWAR	RE (R45324)										
							٠					
green from Stringer												
Latitude: 32.43	اما	ngitude: -103.85		X:	· you me is \$12,10 and \$132	Y:	ATTENDED TO A COMPANY	S	ection: 35	<u>n David weeks 2000</u> st stategi <u>stis</u> s	Rang	je: 30E
Footage X: 1175 F	EL Fo	otage Y: 2250 FS	iL i	Elevation: 3	238	(FT)	Township:	215			<del></del> -	
Tolerance: 100												
Location Type: Yea	ar Round		Start Da	ate (Est.): 0	8/18/2004	Con	npletion Da	ete: 07/1	0/2004	Date In O	peration:	08/18/2004
Formation Data:	Assume	KB = 3230	Jnits =	FT	<del></del>							<del></del>
Formation Call &		Depth	SS	Depletion		внт				Remarks		
Casing Points		(TVD in Ft)	(Pt)	(Yes/No)			<u> </u>					
RUSTLER SALADO		200 530	3030 2700		85 230							
CASTILLE		3320	-90	H	230 1440							
BELL CANYON		3700	<del>-47</del> 0		1500							ı
CHERRY CANYON		4430	-1200		1500							- 1
BRUSHY CANYON		5800	-2570	Ø	900							
BONE SPRING		7400	-4170		3200							
Total Depth		7800	<del>-4</del> 570		3400	125						
	Well Nan			Comment	ts					<del></del>		
Intermediate F	Peakview	Fed #1		<u> </u>								· · · · · · · · · · · · · · · · · · ·
				gan sing si			assay (sets				42	
Intermediate Logs:		only if show 🔲	GR/ILD	(T) Triple	e Combo							
TD Logs:			pmeter		Sonic [	7 VSP	TOT []	[2] Oth	er Mud Log			
Additional Informat			,	<u> </u>					- 100 209	<u>'</u>		

Comments: General/Work Description - New D&E to develope the Peakview Channel sand in the Delaware Sands. This well is continent on the outcome of the Peakview #2 well to be drilled in April, 2004.

Printed on: 03/12/2004 10:34:32 AM

## Peakview Federal #3

## Surface Casing

STRATE ST			0 – 400	ft		
310 to 40 in 15		I.D. (in)	FORE (IN)	Grade	Conn.	(in) *
13.2375	48.00	12.715	12.559	J-55	ST&C	9.625
Galleren in	artik Burat (28	) E Te	isile - Corin (	Kālba) —	PSI Tés	(ace) Falling
690	1620		215			PPCO
Minmon	Torque (tribs).	Optimus	n Tarque († 1	<b>158)</b>	Veximum 1	onde(Habs)
2	2420		3220		4	030

WITNESS

Inferval (n) 🚉 🚉	0-400
Space :	40 bbls FW
	Beat Tall Tall
Camposition	Class C + 2% S1 + 0.25 pps D29
Density/oxides (	14.8
Yeldes at E	1.34
T Sales 14 A Sales	805 (300% excess)
collix Water (spe)	6.29
arhickathreiseann)	i "
Scanic Strangth (68)	0
Eyes Water (%) # 22	0.2% (0.5 ml/250 ml)
Finit Loss (éc)	806

### Peakview Federal #3

### Intermediate Casing

i i		QD/(ii) Pi	0 – 3500 Deitt (16)	Grade	zeom e	com op (in)
8.625	24.00	8.097	7.972	J-55	ST&C	9.625
salia sa is		t en	ille = Cemi	Kabs)	d distrib	Litren Effeting
1290	2760		163		.	PPCO
Minime in	edine (elektr	2 Cyclimun	i Forgue (II)	bsja 🕍	Maximum	teliaries (ficilis) j
•	1830	Ì	2440		3	050

Anteralization de la Constantion	0 - 3000	3000 - 3500
	real control of the	Francisco de la Companya de la Comp
Composition 2		Class C + 0.25 pps D29 + 0.2% D46
	12.4	14.8
		1.33
	1085 (100% excess)	320 (100% excess)
<b>S</b> MINITED OF SEC	11.99	6.35
<b>Z</b> antalanin sinanas		

D44 = Sait, D20 = Gel, D29 = LCM, D46 = Anti-foam

### Peakview Federal #3

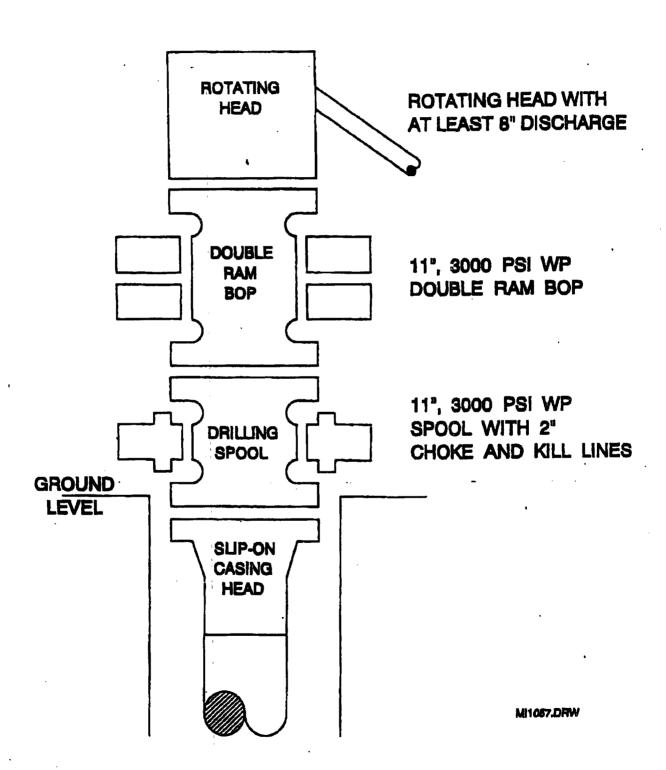
### Production Casing

	in the top care		4		0 – 7800	
0.0 (in)	- Welcht (opt)	1.D. (m)	Drift (In)	Grade	Conn	-com 60 (m)
5.500	15.5	4.892	4.767	L-80	LT&C	6.050
Cellapse (p)	n Build fes	) Ter	șile = Conn	(Kalbs)	PSI Tes	(ps) Bating
3810	4510		131			PPCo
Minlagues :	roupequebs s	- Optimur	n Torque (ff	lbs) l	Naximum'	Torgite (ft-159)
	1630		2170		2	2710

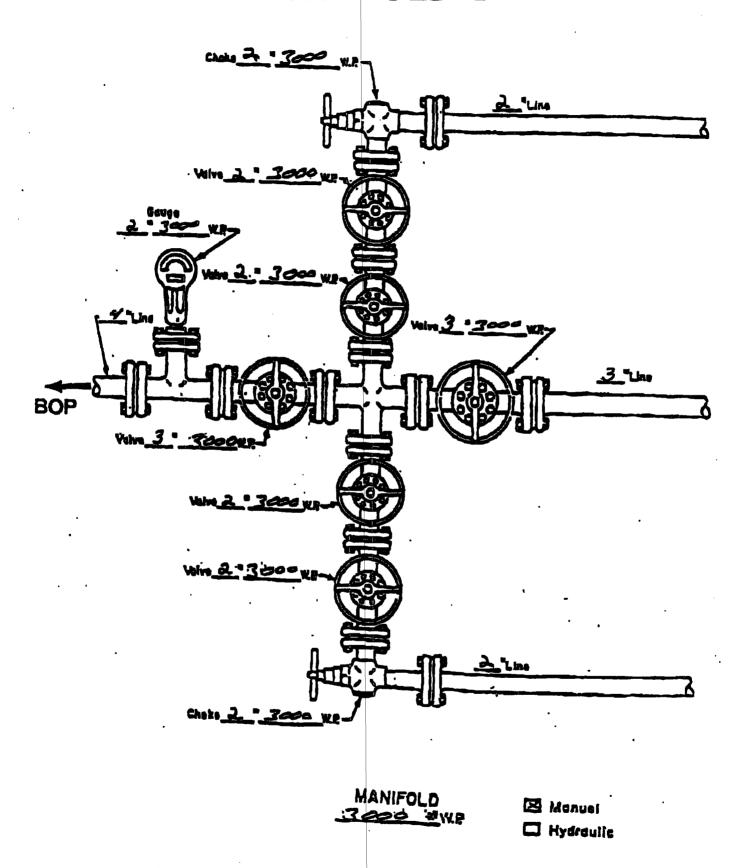
4 (Signerival (ff)		3000-7800
STANCE TO	40 bbls FW	•
Sister Control of the	Lead 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The specific transfer of the second
Composition = 1	35:65 Poz:Class C + 5% D44 (bwow) + 6% D20 + 0.25 pps D29 + 0.2% D46	Class C Neat
E (oge) Wanshi (ope)	12.4	14.8
###-Yield His 75xi	2.15	1.32
SACKS E	240 (60 % excess)	590 (60% excess)
A COLUMN TO THE	11.99	6.31
End Genne (neinn)		3:20
Companie (in particular)	1	24 hrs = 2800 psi, 72 hrs = 3182 psi
Free Water (V)		1.2% (3.0 ml/250 ml)
Fiuid Loss (cc)		1466

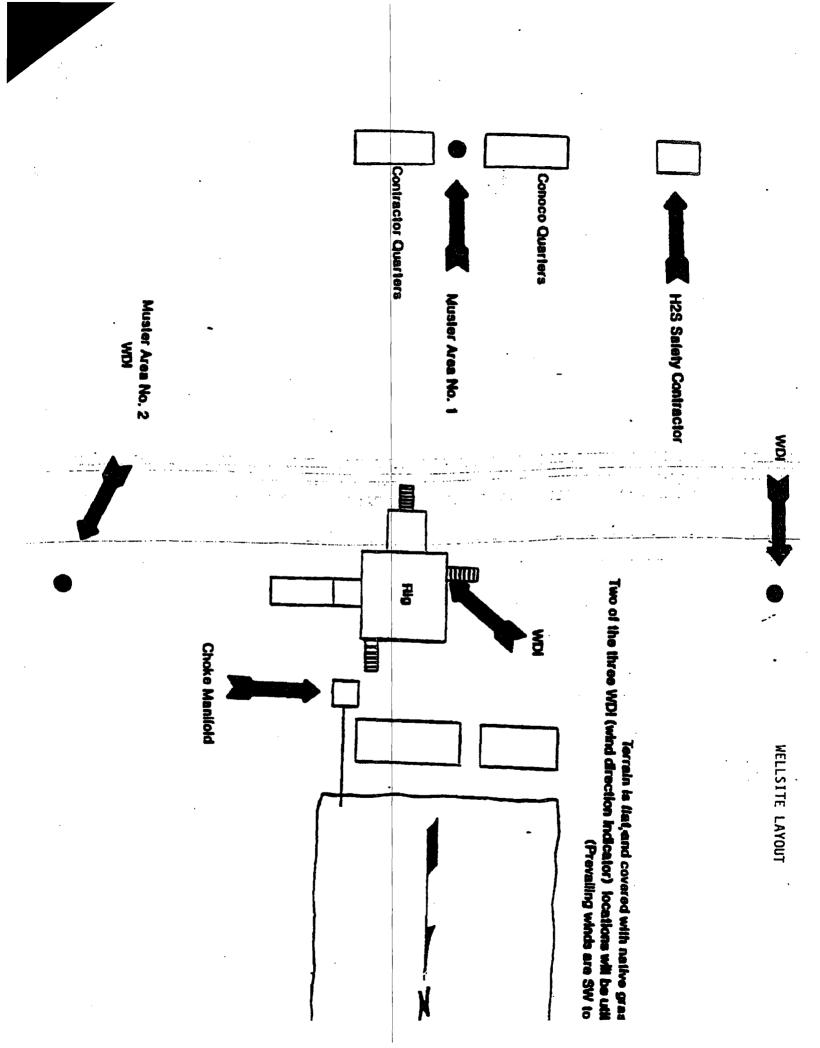
D44 = Salt, D20 = Gel, D46 = Anti-foam, D29 = LCM

# **BOP SPECIFICATIONS**

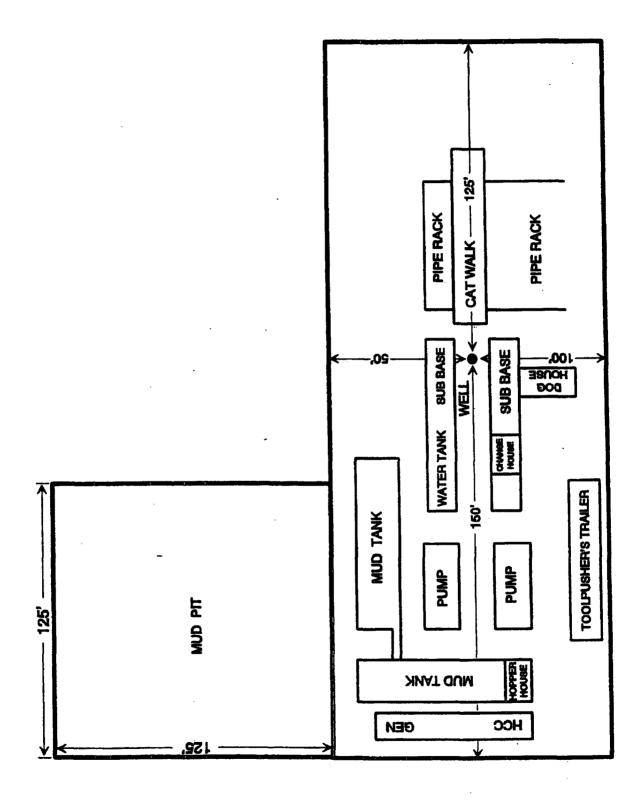


# CHOKE MANIFOLD DIAGRAM

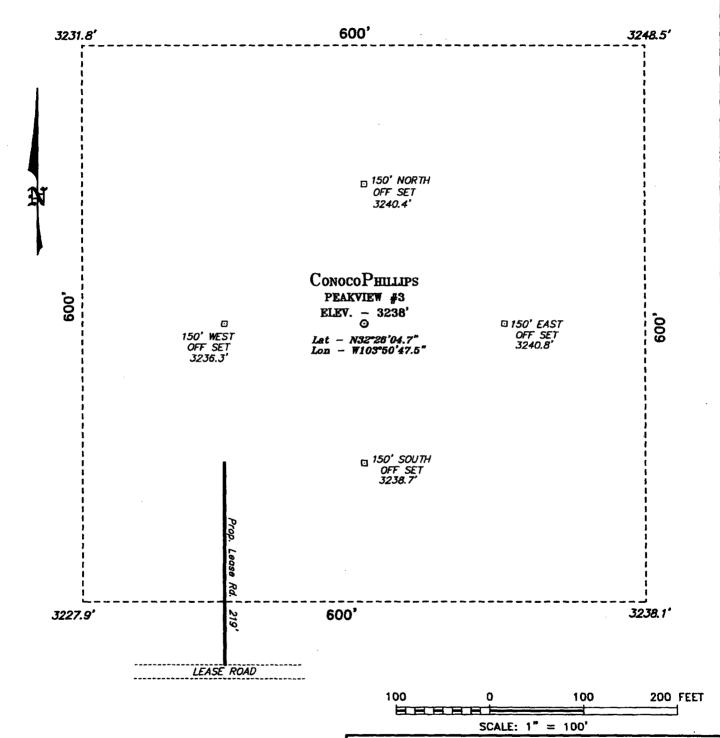




# STANDARD RIG LAYOUT



# SECTION 35, TOWNSHIP 21 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO WELL LOCATION:

FROM THE JUNCTION OF US HWY 62/180 AND STATE HWY 31, GO SOUTH ON HWY 31 FOR 7.2 MILES; THENCE EAST ON CO. RD. 796 FOR 6.3 MILES; THENCE NORTH 1.3 MILES; THENCE 0.2 MILES TO LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

# ConocoPhillps

F: PEAKVIEW No. 3 / Well Pad Topo

THE PEAKVIEW No. 3 LOCATED 2250' FROM

THE SOUTH LINE AND 1175' FROM THE EAST LINE OF SECTION 35, TOWNSHIP 21 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-11-2004 | Sheet 1

et 1 of 1 Sheets

```
Let's try it one more time. Also attached are the BLM stipulations.
 <<Peakview Fed #3 BLM.pdf>>
Thanks.
Yo
> ----Original Message----
> From: Perez, Yolanda
> Sent: Monday, June 20, 2005 9:03 AM
> To: 'bryan.arrant@state.nm.us'
> Subject:
             FW: Peakview #3
> Bryan,
> As per our conversation on Friday, here is the note I sent on Peakview #3
explaining why an H2S Contingency Plan is not needed for this well.
sufficient documentation for you to approve the APD? Please let me know. I really
appreciate all your help on this.
> Thanks,
> Yo
  ----Original Message----
               Perez, Yolanda
> From:
> Sent: Thursday, June 16, 2005 10:38 AM
       'bryan.arrant@state.nm.us'
               Peakview #3
> Subject:
> Hi, Bryan!
> I left you a voicemail but thought I'd go ahead and send you an email as well.
> I was wanting to discuss the H2S Contingency plan requested for the Peakview #3
well located in UL I, Sec. 35, T21S, R30E at 2250' FSL & 1175' FEL. You were
concerned with the H2S zone that Yates encountered in the Jacque AQJ State #7
located in Sec. 34, T21S, R31E. In our review of the area, we concluded that
Yate's well is located about 5 miles +/- from the Peakview #3. Also, we have
drilled two other Peakview wells (#1 & #2 both located in UL P, Sec. 35, T21S,
R30E) which are one UL below the #3 and did not encounter any H2S. There was only
one other well drilled in Sec. 35 (James C #1) which was plugged 1/31/86.
Therefore, we feel and H2S plan is not needed.
> Please let me know your thoughts.
> Sincerely,
> Yolanda Perez
> Sr. Regulatory Analyst
> 832-486-2329 office
> 918-662-3306 fax
> 281-744-6714 cell
```

#### III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.

- The results of the test shall be reported to the appropriate BLM office.

- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.

- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

### SPECIAL DRILLING STIPULATIONS

### THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's NameConocoPhillipsWell Name & No.Peakview Federal #3Location2250FSL & 1175FEL Sec. 35, T. 21S, R 30E.Lease No.NM-70333CountyFDIYStateNew Mexico
The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.
This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.
I. SPECIAL ENVIRONMENT REQUIREMENTS
( ) Lesser Prairie Chicken (stips attached) ( ) Flood plain (stips attached) ( ) San Simon Swale (stips attached) ( ) Other
II. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING
(X) The BLM will monitor construction of this drill site. Notify the (X) Carlsbad Field Office at (505) 234-5972 () Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.
( X ) Roads and the drill pad for this well must be surfaced with <u>6</u> inches of compacted caliche upon completion of well and it is determined to be a producer.
( ) All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximatelyinches in depth. Approximatelycubic yards of topsoil material will be stockpiled for reclamation.
( ) Other.
III. WELL COMPLETION REQUIREMENTS
( ) A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.
(x) Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a dcpth indicator (set at depth of ½ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.
( ) A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (Bouteloua curtipendula) 5.0 Sand Dropseed (Sporobolus cryptandrus) 1.0 Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0
) C. Seed Mixture 3 (Shallow Sites)  Side oats Grama (Boute curtipendula) 1.0  Alkali Sacaton (Sporobollud airoides) 1.0  Four-Wing Saltbush (Atriplex canescens) 5.0
) OTHER SEE ATTACHED SEED MIXTURE
Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to ake advantage of available ground moisture.
( ) Other.

### RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic. Mineral material extracted from within the boundary of the APD during construction of the well pad and reserve pits and be used for the construction of this well pad and its immediate access road only, as long as that portion of the access road it is use on remains on-lease. Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.

Reclamation: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

### OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A temporary or emergency pit may be constructed immediately adjacent to the reserve pit as long as the pit remains within the APD boundary. Mineral material removed from this pit may be used for the construction of this well pad only and its immediate access road, as long as that portion of the access road the material is used on remains on-lease. Removal of any material from the APD boundary for use on other well locations or roads must first be purchased from BLM.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

#### CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to processed by BLM.

### TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

### **CONDITIONS OF APPROVAL - DRILLING**

Operator's Name:

CONOCOPHILLIPS

Well Name & No.

3 - PEAKVIEW FEDERAL

Location:

2250' FSL & 1175' FEL - SEC 35 - T21S - R30E - EDDY COUNTY

Lease: NM-7033

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

#### A. Spudding

- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests
- 2 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.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing ( size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 5. Gamma-Ray/Neutron, Litho-Density or Neutron-Density log shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

#### II. CASING:

- 1. The 13-3/8 inch surface casing shall be set at 400 feet, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>8-5/8</u> inch salt protection casing is <u>circulate cement</u> to the surface.
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>circulate cement to the</u> surface.
- 5. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.