## Submit to Appropriate District Office State 2230 - 6 copies Fire 1235 - 5 copies

CONDITIONS OF ATTROVAL, IF ANY:

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

Fre Lesse - 5 copies		00100000							
DISTRICT 1 P.O. Box 1980, Hobbs, NM		P.O. Box 2088 RECEIVED		API NO. (assigned by OCD on New Wells)					
DISTRICT II P.O. Drawer DD, Artesia, N	S	anta Fe, New Mexico 8	87504-2088	5. Indicate Type of Lease					
DISTRICT III			OCT 29 '90	6. State Oil & Gas Lease	ATE S FEE S				
1000 Rio Brazos Rd., Anec		LG-5555							
APPLICAT	ION FOR PERMIT T	ro drill, deepen, o							
1a. Type of Work:  ARTESIA, OFFICE  7. Lease Name or Unit Agreement Name									
DRILL RE-ENTER DEEPEN PLUG BACK  b. Type of Well:  OIL OAS West Fork Fed. Unit									
will weit	on tex	SINGLE ZONE	ZONE ZONE						
2. Name of Operator 8. Well No.									
3. Address of Operator	il Corporation	9. Pool name or Wildcat							
	x 2014, Roswell	, NM 88202		West Pecos Al	bo				
4. Well Location Unit Letter J: 1980 Feet From The South Line and 1980 Feet From The East Line									
Section 32	Towns	ship 4S Ran	22E	Chaves	County				
		10. Proposed Depth 3100'	. 11. F	formation Abo	12. Rotary or C.T. Rotary				
13. Elevations (Show whether 4406 GR	· •	14. Kind & Status Plug. Bond Blanket	15. Drilling Contractor	<del></del>	Date Work will start 31-90				
17.		ROPOSED CASING AN	ID CEVENT DDOC	744					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP				
911 979	7.0"	20.0 #	-900+ - 700	500 sx	Circ				
61''	411	10.5 #	TĎ	325 sx	600' above				
					T/pay				
1. Drill 9 1/2" hole to 900 <sup>±</sup> and run 7.0" casing and cement to surface.  2. Wait on cement for 18 hours.  3. Nipple up on 7.0" casing using a double ram type B.O.P. and pressure test casing to 1000 psi for 30 manutes.  4. Drill 6 1/4" hole to 3,100' to adequately test the Abo formation.  5. Run 4 1/2" casing if warranted and cement to 600' above top of pay section and/or to isolate all oil, gas and water zones.  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: F PROPOSAL IS TO DELIFEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PRODUC									
THE OR PRINT NAME	ι			<b>1</b> 1	ELITIONE NO.				
(This space for State Use)	ORIGINAL SIGNE MIKE WILLIAMS SUPERVISOR, DI				OCT 3 0 1990				

### O" CONSERVATION DIVISION

#### STATE OF NEW MEXICO THEORY MY LAINEHALS DECANTMENT

### r, o, nox 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

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Yerinter Mc	KAY OIL CORP.		WESTFORK I	Well No.	;		
J Se	32 Townshi		22 EAST				
1980	SOUTH	14	1980		EAST		
round Level Elev.	Producing Formation	line and Pool		of from the	Dedice	line nted Acreages	<del></del>
4406 	Abo .		West Pecos A	\bo		160	Acres
	crenge dedicated to to one lense is dedicate oyalty).		•		•		orking
If nuswer is this form if ne	'nn,' list the owners recessively.)	"yes;" type of con- ind tract descriptions	solidation	ctually beer	n consolidated. (	Use reverse s	ide of
forced-pooling	, or otherwise) or until	n non-standard unit	, eliminating suc	th Interests		ved by the DIV	/Islon.
	SEC.32, T.4 S.	R .22 E., NMP	M I		I hereby certily to tained herein Is to best of my knowld	ive and complete	
	 		 	•	James L. Position  VP Land &		
					McKay Oil Date 10-26-90	Corp.	
•		LG-5555	1980'	_>	I hereby certify that the well local shown on this plot was platted from I nates of actual surveys made by ma under my supervision, and that the st		m Held me er
	· <del> </del> ·	1980,			knowledge and be	ect to the best. lief.	
	 		·   .	] ]-	PEBRUARY 14 Hentatered Professions on: Unit Long to Company	1989	/ /.s.
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# STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 10205 Order No. R-9422

APPLICATION OF MCKAY OIL CORPORATION FOR A HORIZONTAL DIRECTIONAL DRILLING PROJECT AND SPECIAL OPERATING RULES THEREFOR, CHAVES COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

### BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on January 10, 1991, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 25th day of January, 1991, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) Division Case Nos. 10190, 10205, 10206, 10207 and 10208 were consolidated at the time of the hearing for the purpose of testimony.

CASE NO. 10205 Order No. R-9422 Page -2-

(3) The applicant, McKay Oil Corporation, seeks authority to initiate a horizontal directional drilling project in the SE/4 of Section 32, Township 4 South, Range 22 East, NMPM, Chaves County, New Mexico, being a standard 160-acre gas spacing and proration unit in the Undesignated North Pecos Slope-Abo Gas Pool. The applicant proposes to drill its West Fork Federal Unit Well No. 3 located at a standard surface location 1980 feet from the South and East lines (Unit J) of said Section 32 in the following manner:

Drill vertically to a depth of approximately 3400 feet through the Abo formation, log well, plug back and set production casing, kick off from vertical at a depth of approximately 2950 feet and commence a short radius curve in an undetermined direction building angle to approximately 90 degrees, commence drilling horizontally at a depth of approximately 3010 feet a distance of approximately 500 feet.

- (4) The applicant further seeks special rules and provisions within the project area including the designation of a prescribed area limiting the horizontal displacement of the wellbore such that the well can be no closer than 660 feet to the outer boundary of its assigned spacing and proration unit.
- (5) The evidence and testimony presented indicates that the proposed horizontal wellbore, which is experimental in nature, should encounter a greater amount of natural fractures within the Abo formation than would a conventional wellbore, which should ultimately result in the recovery of a greater amount of gas from the proposed proration unit, thereby preventing waste.
- (6) According to evidence presented, the subject well is located within the applicant's West Fork Unit Area which contains therein all offset acreage surrounding the SE/4 of said Section 32.
- (7) According to further evidence the proposed surface location is such that there is a possibility, depending on the kick off direction, that the horizontal portion of the wellbore may encroach upon the 660 foot setback requirement described in Finding No. (4) above.

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- (8) Should the horizontal portion of the wellbore encroach upon the 660 foot setback requirement and commercial gas production is established within the well, the applicant should be required to reopen this case and appear and present evidence and testimony in order to demonstrate that correlative rights will be protected.
- (9) No offset operator and/or interest owner appeared at the hearing in opposition to the application.
- (10) Approval of the proposed horizontal directional drilling project should result in the recovery of an additional amount of gas from the proposed proration unit which may not otherwise be recovered, thereby preventing waste, and will not violate correlative rights provided that the proposed horizontal drainhole is in compliance with the setback requirements described in Finding No. (4) above.
- (11) The applicant should be required to conduct a directional survey on the vertical portion of the wellbore prior to commencing directional drilling operations, and on the horizontal portion of the wellbore during or subsequent to completion of directional drilling operations in order that the direction, extent and terminus of said horizontal drainhole may be determined to be in compliance with the terms of this order.
- (12) The applicant should further be required to submit copies of said directional surveys to the Santa Fe and Artesia offices of the Division.
- (13) The applicant should notify the supervisor of the Artesia district office of the Division of the date and time of commencement of directional drilling operations and of the conductance of any directional surveys on the proposed well in order that these operations may be witnessed.

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### IT IS THEREFORE ORDERED THAT:

- (1) The application of McKay Oil Corporation for a horizontal directional drilling project in the SE/4 of Section 32, Township 4 South, Range 22 East, NMPM, Undesignated North Pecos Slope-Abo Gas Pool, Chaves County, New Mexico, is hereby approved.
- (2) The applicant is further authorized to drill its West Fork Federal Unit Well No. 3 located at a standard surface location 1980 feet from the South and East lines (Unit J) of said Section 32 in the following manner:

Drill vertically to a depth of approximately 3400 feet through the Abo formation, log well, plug back and set production casing, kick off from vertical at a depth of approximately 2950 feet and commence a short radius curve in an undetermined direction building angle to approximately 90 degrees, commence drilling horizontally at a depth of approximately 3010 feet a distance of approximately 500 feet.

- (3) The SE/4 of said Section 32 shall be dedicated to the above-described well forming a standard 160-acre gas spacing and proration unit for the North Pecos Slope-Abo Gas Pool.
- (4) No part of the horizontal wellbore shall be located closer than 660 feet from the outer boundary of the proration unit.
- (5) Should the horizontal portion of the wellbore encroach upon the 660 foot setback requirement and commercial gas production is established within the well, the applicant shall be required to reopen this case and appear and present evidence and testimony in order to demonstrate that correlative rights will be protected.

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- (6) The applicant shall be required to conduct a directional survey on the vertical portion of the wellbore prior to commencing directional drilling operations, and on the horizontal portion of the wellbore during or subsequent to completion of directional drilling operations in order that the direction, extent and terminus of said horizontal drainhole may be determined to be in compliance with the terms of this order.
- (7) The applicant shall further be required to submit copies of said directional surveys to the Santa Fe and Artesia offices of the Division.
- (8) The applicant shall notify the supervisor of the Artesia district office of the Division of the date and time of commencement of directional drilling operations and of the conductance of any directional surveys on the proposed well in order that these operations may be witnessed.
- (9) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

designated

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director