

CMD :
OG55SECT

ONGARD
INQUIRE LAND BY SECTION

09/02/05 14:26:04
OGOMES -TOWN
PAGE NO: 1

Sec : 03 Twp : 25S Rng : 28E Section Type : NORMAL

4 40.26 CS V05920 0000 SOUTHWESTERN ENER 09/01/05	3 40.38 CS V05920 0000 SOUTHWESTERN ENER 09/01/05	2 40.50 CS VA2964 0001 MARBOB ENERGY COR 08/01/08	1 40.62 CS V05920 0000 SOUTHWESTERN ENER 09/01/05
E 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 A	F 40.00 CS V05920 0000 SOUTHWESTERN ENER 09/01/05 A	G 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 C	H 40.00 CS V05920 0000 SOUTHWESTERN ENER 09/01/05 A A
L 40.00 CS V05920 0000 SOUTHWESTERN ENER 09/01/05	K 40.00 CS V05920 0000 SOUTHWESTERN ENER 09/01/05 A	J 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 A A	I 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08
M 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 A	N 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 A A	O 40.00 CS VA2964 0001 MARBOB ENERGY COR 08/01/08 C A	P 40.00 CS V05920 0000 SOUTHWESTERN ENER 09/01/05 C

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Ave., Artesia, NM 88210

District III
1000 Rio Bravos Rd., Aztec, NM 87410

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Permit 13712

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address MARBOB ENERGY CORP PO Box 227 Artesia, NM 88211-0227		OGRID Number 14049
Property Code 34339		API Number 30-015-34242
Property Name SLY HAWK STATE		Well No. 004

Surface Location

UL or Lot	Section	Township	Range	Lot Ldn	Feet From	N/S Line	Feet From	E/W Line	County
C	3	25S	28E	3	330	N	2620	W	Eddy

Bottom Holes

Pool: WILLOW LAKE, DELAWARE, SW 96855									
UL or Lot	Section	Township	Range	Lot Ldn	Feet From	N/S Line	Feet From	E/W Line	County
D	3	25S	28E	3	430	N	330	W	Eddy

Work Type New Well	Well Type OIL	Cable/Rotary	Lease Type State	Ground Level Elevation 2996
Multiple N	Proposed Depth 6825	Formation Delaware	Contractor	Spud Date 07/28/2005

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	550	350	0
Prod	8.75	5.5	17	6825	900	0

Casing/Cement Program: Additional Comments

Propose to drill 12 1/4 in. hole to 550 ft. w/fresh water, set surface csg, circ; drill 8 3/4 in. hole to TD w/brine water, set production csg, cmt w/sufficient cmt to cover 500 feet above all oil and gas bearing zones.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Electronically Signed By: Diana Briggs

Title: Production Analyst

Date: 07/22/2005 Phone: 505-748-3303

OIL CONSERVATION DIVISION

Electronically Approved By: Bryan Arrant

Title: Geologist

Approval Date: 07/28/2005 Expiration Date: 07/28/2006

Conditions of Approval:
There are conditions. See Attached.

District I
1625 N. French Dr., Hobbs, NM 88240

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
Permit 13712

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34242	Pool Name WILLOW LAKE; DELAWARE, SW	Pool Code 96855
Property Code 34339	Property Name SLY HAWK STATE	Well No. 004
OGRID No. 14049	Operator Name MARBOB ENERGY CORP	Elevation 2996

Surface Location

UL or Lot C	Section 3	Township 25S	Range 28E	Lot Idn 3	Feet From 330	N/S Line N	Feet From 2620	E/W Line W	County Eddy
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Bottom Hole Location If Different From Surface

UL or Lot D	Section 3	Township 25S	Range 28E	Lot Idn 3	Feet From 430	N/S Line N	Feet From 330	E/W Line W	County Eddy
Dedicated Acres 80		Joint or Infill		Consolidation Code		Order No.			

☒	☒		

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By: Diana Briggs

Title: Production Analyst

Date: 07/22/2005

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gary Eidson

Date of Survey: 07/20/2005

Certificate Number: 12641

Permit Conditions Of Approval
C-101, Permit 13712

Operator: MARBOB ENERGY CORP , 14049

Well: SLY HAWK STATE #004

OCD Reviewer	Condition
BARRANT	Drill only. NSL required to produce.
VBARTON	If any type of earthen pit is used in association with the drilling of this well, the requirements of Rule 50 must be met.

Permit Comments**Operator: MARBOB ENERGY CORP , 14049****Well: SLY HAWK STATE #004**

30-015-34242

User Name	Comment	Comment Date
MARBOB4	Pathfinder Directional Drilling Plan will be forwarded as soon as avilable.	7/21/2005
MARBOB4	We plan to complete this well in the Delaware and dont anticipate cutting any formations that contain H2S during the drilling of this well. Therefore we do not believe an H2S contingency plan is necessary.	7/21/2005

Permit Conditions Of Approval

C-101, Permit 13712

Operator: MARBOB ENERGY CORP , 14049

Well: SLY HAWK STATE #004

OCD Reviewer	Condition
BARRANT	Drill only. NSL required to produce.
VBARTON	If any type of earthen pit is used in association with the drilling of this well, the requirements of Rule 50 must be met.



Company: Marbob Energy Field: Sly Hawk Field Site: Sly Hawk #4 Well: Sly Hawk #4 Wellpath: Original Hole				Date: 7/19/2005 Co-ordinate(NE) Reference: Well: Sly Hawk #4, True North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,267.50Azi) Plan: Plan #1 071905				Time: 10:47:20 Page: 1		
Field: Sly Hawk Field Section 3, T25-S, R28-E Eddy County, New Mexico Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level				Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: igrf2005						
Site: Sly Hawk #4 Eddy County, New Mexico										
Site Position: From: Lease Line Position Uncertainty: Ground Level:		Northing: Easting:		ft ft		Latitude: Longitude: North Reference: Grid Convergence:		 True 0.00 deg		
Well: Sly Hawk #4				Slot Name:						
Well Position:		+N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft		Northing: 0.00 ft Easting : 0.00 ft		Latitude: 30 59 24.512 N Longitude: 105 55 44.137 W				
Wellpath: Original Hole				Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 0.00 deg Mag Dip Angle: 0.00 deg						
Current Datum: SITE Magnetic Data: 7/19/2005 Field Strength: 0 nT Vertical Section: Depth From (TVD) ft		Height 0.00 ft +N/-S ft 4865.00		+E/-W ft 0.00		Direction deg 267.50				
Plan: Plan #1 071905				Date Composed: 7/19/2005 Version: 1 Tied-to: From Surface						
Principal: No										
Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4387.50	0.00	0.00	4387.50	0.00	0.00	0.00	0.00	0.00	0.00	
5137.56	90.00	267.50	4865.00	-20.83	-477.05	12.00	12.00	0.00	267.50	
6952.24	90.00	267.50	4865.00	-100.00	-2290.00	0.00	0.00	0.00	0.00	Sly Hawk State #4 PBHL
Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00						

PathFinder

Planning Report

Company: Marbob Energy
 Field: Sly Hawk Field
 Site: Sly Hawk #4
 Well: Sly Hawk #4
 Wellpath: Original Hole

Date: 7/19/2005 Time: 10:47:20
 Co-ordinate(NE) Reference: Well: Sly Hawk #4, True North
 Vertical (TVD) Reference: SITE 0:0
 Section (VS) Reference: Well (0:00N,0:00E,267.50Azi)
 Plan: Plan #1:071905

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4387.50	0.00	0.00	4387.50	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4387.5' w/12" Build
4400.00	1.50	267.50	4400.00	-0.01	-0.16	0.16	12.00	12.00	0.00	
4425.00	4.50	267.50	4424.96	-0.06	-1.47	1.47	12.00	12.00	0.00	
4450.00	7.50	267.50	4449.82	-0.18	-4.08	4.08	12.00	12.00	0.00	
4475.00	10.50	267.50	4474.51	-0.35	-7.99	7.99	12.00	12.00	0.00	
4500.00	13.50	267.50	4498.96	-0.58	-13.18	13.18	12.00	12.00	0.00	
4525.00	16.50	267.50	4523.11	-0.86	-19.64	19.66	12.00	12.00	0.00	
4550.00	19.50	267.50	4546.88	-1.19	-27.36	27.38	12.00	12.00	0.00	
4575.00	22.50	267.50	4570.22	-1.59	-36.31	36.34	12.00	12.00	0.00	
4600.00	25.50	267.50	4593.05	-2.03	-46.46	46.51	12.00	12.00	0.00	
4625.00	28.50	267.50	4615.33	-2.52	-57.80	57.86	12.00	12.00	0.00	
4650.00	31.50	267.50	4636.98	-3.07	-70.29	70.35	12.00	12.00	0.00	
4675.00	34.50	267.50	4657.94	-3.66	-83.89	83.97	12.00	12.00	0.00	
4700.00	37.50	267.50	4678.17	-4.30	-98.57	98.66	12.00	12.00	0.00	
4725.00	40.50	267.50	4697.59	-4.99	-114.28	114.39	12.00	12.00	0.00	
4750.00	43.50	267.50	4716.17	-5.72	-130.99	131.12	12.00	12.00	0.00	
4775.00	46.50	267.50	4733.85	-6.49	-148.65	148.79	12.00	12.00	0.00	
4800.00	49.50	267.50	4750.57	-7.30	-167.21	167.37	12.00	12.00	0.00	
4825.00	52.50	267.50	4766.31	-8.15	-186.61	186.79	12.00	12.00	0.00	
4850.00	55.50	267.50	4781.00	-9.03	-206.82	207.01	12.00	12.00	0.00	
4875.00	58.50	267.50	4794.62	-9.94	-227.76	227.98	12.00	12.00	0.00	
4900.00	61.50	267.50	4807.12	-10.89	-249.39	249.62	12.00	12.00	0.00	
4925.00	64.50	267.50	4818.47	-11.86	-271.64	271.90	12.00	12.00	0.00	
4950.00	67.50	267.50	4828.64	-12.86	-294.45	294.73	12.00	12.00	0.00	
4975.00	70.49	267.50	4837.60	-13.87	-317.76	318.07	12.00	12.00	0.00	
5000.00	73.49	267.50	4845.32	-14.91	-341.51	341.84	12.00	12.00	0.00	

PathFinder Planning Report

Company: Marbob Energy
Field: Sly Hawk Field
Site: Sly Hawk #4
Well: Sly Hawk #4
Wellpath: Original Hole

Date: 7/19/2005 Time: 10:47:20
Co-ordinate(NE) Reference: Well: Sly Hawk #4, True North.
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well: (0.00N,0.00E,267.50Azi)
Plan: Plan #1 071905

Page: 3

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5025.00	76.49	267.50	4851.80	-15.96	-365.64	365.98	12.00	12.00	0.00	
5050.00	79.49	267.50	4857.00	-17.03	-390.06	390.43	12.00	12.00	0.00	
5075.00	82.49	267.50	4860.91	-18.11	-414.73	415.12	12.00	12.00	0.00	
5100.00	85.49	267.50	4863.52	-19.19	-439.56	439.98	12.00	12.00	0.00	
5125.00	88.49	267.50	4864.83	-20.28	-464.50	464.95	12.00	12.00	0.00	
5137.56	90.00	267.50	4865.00	-20.83	-477.05	477.50	12.00	12.00	0.00	End of Curve @ 5138' MD
5200.00	90.00	267.50	4865.00	-23.55	-539.43	539.94	0.00	0.00	0.00	
5300.00	90.00	267.50	4865.00	-27.91	-639.34	639.94	0.00	0.00	0.00	
5400.00	90.00	267.50	4865.00	-32.28	-739.24	739.94	0.00	0.00	0.00	
5500.00	90.00	267.50	4865.00	-36.64	-839.15	839.94	0.00	0.00	0.00	
5600.00	90.00	267.50	4865.00	-41.00	-939.05	939.94	0.00	0.00	0.00	
5700.00	90.00	267.50	4865.00	-45.36	-1038.95	1039.94	0.00	0.00	0.00	
5800.00	90.00	267.50	4865.00	-49.72	-1138.86	1139.94	0.00	0.00	0.00	
5900.00	90.00	267.50	4865.00	-54.09	-1238.76	1239.94	0.00	0.00	0.00	
6000.00	90.00	267.50	4865.00	-58.45	-1338.67	1339.94	0.00	0.00	0.00	
6100.00	90.00	267.50	4865.00	-62.81	-1438.57	1439.94	0.00	0.00	0.00	
6200.00	90.00	267.50	4865.00	-67.17	-1538.48	1539.94	0.00	0.00	0.00	
6300.00	90.00	267.50	4865.00	-71.53	-1638.38	1639.94	0.00	0.00	0.00	
6400.00	90.00	267.50	4865.00	-75.90	-1738.29	1739.94	0.00	0.00	0.00	
6500.00	90.00	267.50	4865.00	-80.26	-1838.19	1839.94	0.00	0.00	0.00	
6600.00	90.00	267.50	4865.00	-84.62	-1938.10	1939.94	0.00	0.00	0.00	
6700.00	90.00	267.50	4865.00	-88.98	-2038.00	2039.94	0.00	0.00	0.00	
6800.00	90.00	267.50	4865.00	-93.34	-2137.91	2139.94	0.00	0.00	0.00	
6900.00	90.00	267.50	4865.00	-97.71	-2237.81	2239.94	0.00	0.00	0.00	
6952.24	90.00	267.50	4865.00	-100.00	-2290.00	2292.18	0.00	0.00	0.00	Sly Hawk State #4 PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec
Sly Hawk State #4 PBHL		4865.00	-100.00	-2290.00	-67.15	-2291.20	30 59 23.521 N	105 56 10.439 W

Annotation

MD ft	TVD ft	
4387.50	4387.50	KOP @ 4387.5' w/12° Build Rates
5137.56	4865.00	End of Curve @ 5138' MD / 4865' TVD

Marbob Energy

Sly Hawk State #4
Section 3, T25-S, R28-E
Eddy County, New Mexico
Plan #1 071905

COMPANY DETAILS

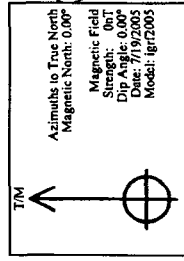
Marbob Energy
2208 W. Main St.
Artesia, New Mexico
Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Error Surface: Elliptical Center
Warning Method: Error Ratio

PATHFINDER
ENERGY SERVICES

Sec	MD	Inc	Adj	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4387.50	0.00	0.00	4387.50	0.00	0.00	0.00	0.00	0.00	0.00
3	4387.50	90.00	267.50	4865.00	-20.83	-477.05	12.00	267.50	477.50	0.00
4	6952.24	90.00	267.50	4865.00	-100.00	-2290.00	0.00	0.00	2292.18	Sly Hawk State #4 PBHL

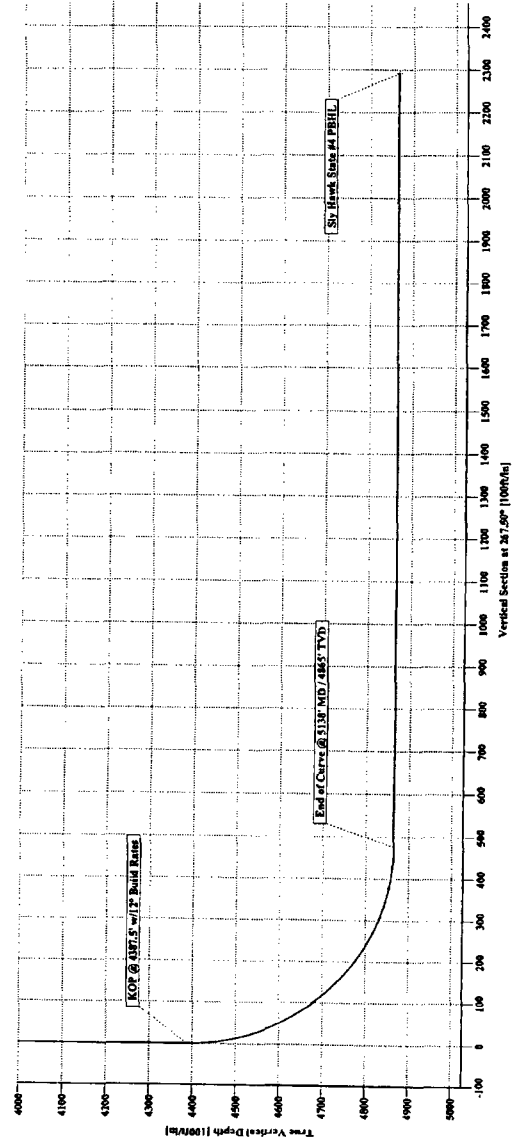
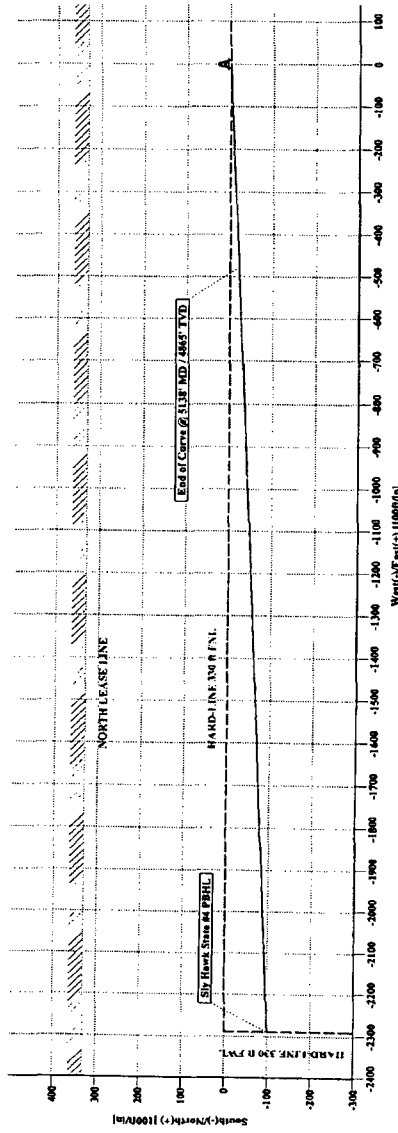
FIELD DETAILS
Sly Hawk Field
Section 3, T25-S, R28-E
Eddy County, New Mexico
Coordinate System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGR2005
System Datum: Mean Sea Level
Local North: True North

2' 2800
450
1853



Name	TVD	+N/-S	+E/-W	Shape
Sly Hawk State #4 PBHL	4865.00	-100.00	-2290.00	Point

No.	TVD	MD	Annotation
1	4387.50	KOP @ 4387.5' w/ 12° Build Rate	
2	4865.00	End of Curve @ 5138' MD / 4865' TVD	



Vertical Section at 267.50° [1000ft]

PathFinder Planning Report

Company: Marbob Energy
Field: Sly Hawk Field
Site: Sly Hawk #4
Well: Sly Hawk #4
Wellpath: Original Hole

Date: 7/19/2005
Co-ordinate(NE) Refer
Vertical (TVD) Refere
Section (VS) Referenc
Plan:

Field: Sly Hawk Field
Section 3, T25-S, R28-E
Eddy County, New Mexico
Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone:
Coordinate System:
Geomagnetic Model:

Site: Sly Hawk #4

Eddy County, New Mexico

Site Position:
From: Lease Line
Position Uncertainty: 0.00 ft
Ground Level: 0.00 ft

Northing: ft
Easting: ft
Latitude:
Longitude:
North Reference:
Grid Convergence:

Well: Sly Hawk #4

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 0.00 ft
+E/-W 0.00 ft Easting: 0.00 ft
Position Uncertainty: 0.00 ft

Latitude:
Longitude: 1

Wellpath: Original Hole

Current Datum: SITE Height 0.00 ft
Magnetic Data: 7/19/2005
Field Strength: 0 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
4865.00 0.00

Drilled From:
Tie-on Depth:
Above System Datum
Declination:
Mag Dip Angle:
+E/-W
ft
0.00

Plan: Plan #1 071905

Date Composed:
Version:
Tied-to:

Principal: No

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100f
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4387.50	0.00	0.00	4387.50	0.00	0.00	0.00	0.00
5137.56	90.00	267.50	4865.00	-20.83	-477.05	12.00	12.00
6952.24	90.00	267.50	4865.00	-100.00	-2290.00	0.00	0.00

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00

200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00
4387.50	0.00	0.00	4387.50	0.00	0.00	0.00	0.00
4400.00	1.50	267.50	4400.00	-0.01	-0.16	0.16	12.00
4425.00	4.50	267.50	4424.96	-0.06	-1.47	1.47	12.00
4450.00	7.50	267.50	4449.82	-0.18	-4.08	4.08	12.00
4475.00	10.50	267.50	4474.51	-0.35	-7.99	7.99	12.00
4500.00	13.50	267.50	4498.96	-0.58	-13.18	13.19	12.00
4525.00	16.50	267.50	4523.11	-0.86	-19.64	19.66	12.00
4550.00	19.50	267.50	4546.88	-1.19	-27.36	27.38	12.00

4575.00	22.50	267.50	4570.22	-1.59	-36.31	36.34	12.00
4600.00	25.50	267.50	4593.05	-2.03	-46.46	46.51	12.00
4625.00	28.50	267.50	4615.33	-2.52	-57.80	57.86	12.00
4650.00	31.50	267.50	4636.98	-3.07	-70.29	70.35	12.00
4675.00	34.50	267.50	4657.94	-3.66	-83.89	83.97	12.00
4700.00	37.50	267.50	4678.17	-4.30	-98.57	98.66	12.00
4725.00	40.50	267.50	4697.59	-4.99	-114.28	114.39	12.00
4750.00	43.50	267.50	4716.17	-5.72	-130.99	131.12	12.00
4775.00	46.50	267.50	4733.85	-6.49	-148.65	148.79	12.00
4800.00	49.50	267.50	4750.57	-7.30	-167.21	167.37	12.00
4825.00	52.50	267.50	4766.31	-8.15	-186.61	186.79	12.00
4850.00	55.50	267.50	4781.00	-9.03	-206.82	207.01	12.00
4875.00	58.50	267.50	4794.62	-9.94	-227.76	227.98	12.00
4900.00	61.50	267.50	4807.12	-10.89	-249.39	249.62	12.00
4925.00	64.50	267.50	4818.47	-11.86	-271.64	271.90	12.00
4950.00	67.50	267.50	4828.64	-12.86	-294.45	294.73	12.00
4975.00	70.49	267.50	4837.60	-13.87	-317.76	318.07	12.00
5000.00	73.49	267.50	4845.32	-14.91	-341.51	341.84	12.00
5025.00	76.49	267.50	4851.80	-15.96	-365.64	365.98	12.00
5050.00	79.49	267.50	4857.00	-17.03	-390.06	390.43	12.00
5075.00	82.49	267.50	4860.91	-18.11	-414.73	415.12	12.00
5100.00	85.49	267.50	4863.52	-19.19	-439.56	439.98	12.00
5125.00	88.49	267.50	4864.83	-20.28	-464.50	464.95	12.00
5137.56	90.00	267.50	4865.00	-20.83	-477.05	477.50	12.00
5200.00	90.00	267.50	4865.00	-23.55	-539.43	539.94	0.00
5300.00	90.00	267.50	4865.00	-27.91	-639.34	639.94	0.00
5400.00	90.00	267.50	4865.00	-32.28	-739.24	739.94	0.00
5500.00	90.00	267.50	4865.00	-36.64	-839.15	839.94	0.00
5600.00	90.00	267.50	4865.00	-41.00	-939.05	939.94	0.00
5700.00	90.00	267.50	4865.00	-45.36	-1038.95	1039.94	0.00
5800.00	90.00	267.50	4865.00	-49.72	-1138.86	1139.94	0.00
5900.00	90.00	267.50	4865.00	-54.09	-1238.76	1239.94	0.00
6000.00	90.00	267.50	4865.00	-58.45	-1338.67	1339.94	0.00
6100.00	90.00	267.50	4865.00	-62.81	-1438.57	1439.94	0.00
6200.00	90.00	267.50	4865.00	-67.17	-1538.48	1539.94	0.00
6300.00	90.00	267.50	4865.00	-71.53	-1638.38	1639.94	0.00
6400.00	90.00	267.50	4865.00	-75.90	-1738.29	1739.94	0.00
6500.00	90.00	267.50	4865.00	-80.26	-1838.19	1839.94	0.00
6600.00	90.00	267.50	4865.00	-84.62	-1938.10	1939.94	0.00
6700.00	90.00	267.50	4865.00	-88.98	-2038.00	2039.94	0.00
6800.00	90.00	267.50	4865.00	-93.34	-2137.91	2139.94	0.00
6900.00	90.00	267.50	4865.00	-97.71	-2237.81	2239.94	0.00
6952.24	90.00	267.50	4865.00	-100.00	-2290.00	2292.18	0.00

Targets

Name	Description	TVD	+N/-S	+E/-W	Map	M
	Dip. Dir.	ft	ft	ft	Northing	Ea
					ft	
Sly Hawk State #4 PBHL		4865.00	-100.00	-2290.00	-67.15	-2

Annotation

MD	TVD	
ft	ft	
4387.50	4387.50	KOP @ 4387.5' w/12° Build Rates
5137.56	4865.00	End of Curve @ 5138' MD / 4865' TVD

County Eddy

Pool Southwest Willow Lake-Delaware

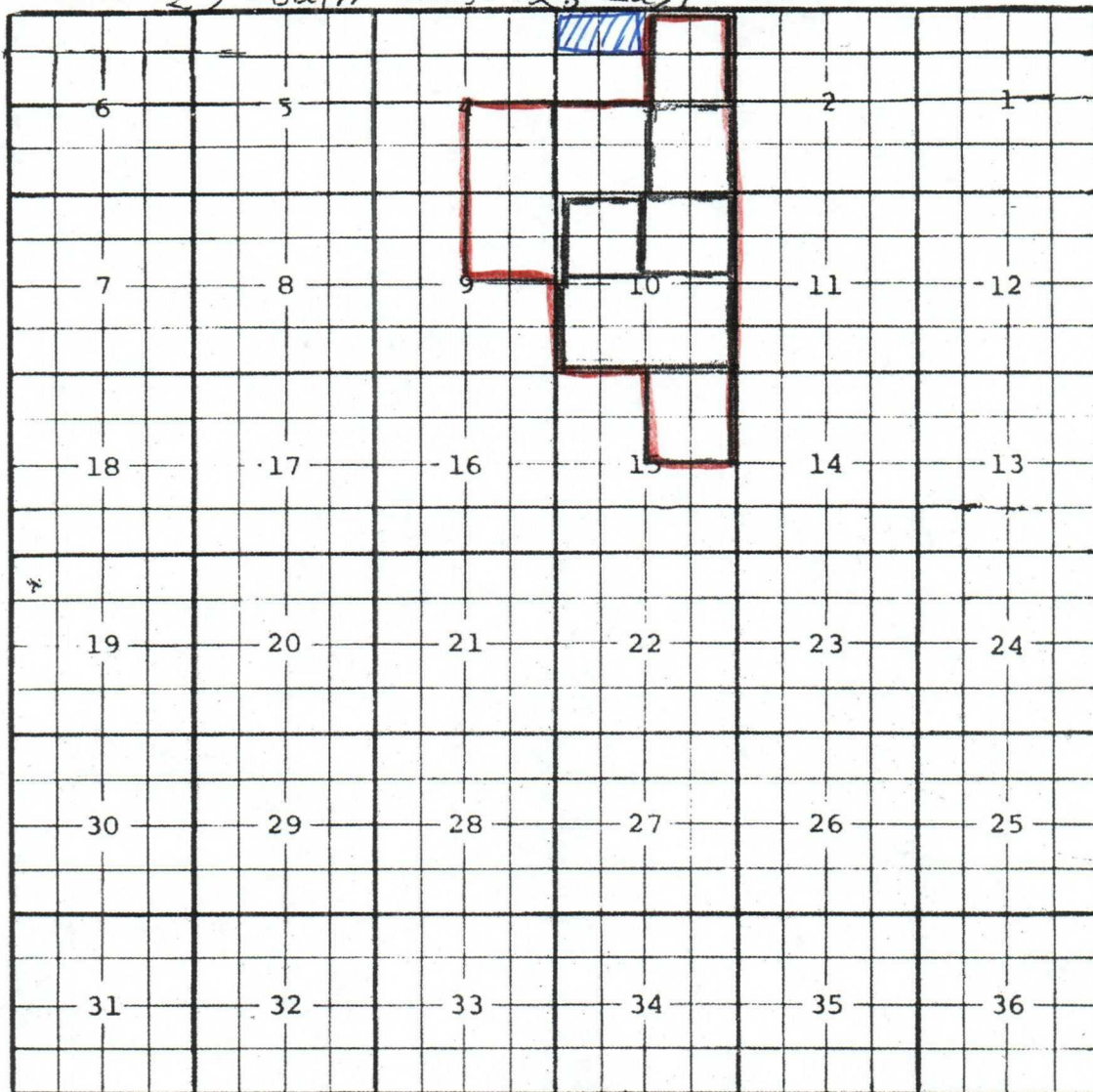
TOWNSHIP

25 South

Range

28 East

NMPM



Description: NE 1/4 Sec. 10 (R-11120, 1-21-95) Ext. NE 1/4 Sec. 10 (R-11838, 9-27-02)

Ext: SE 1/4 Sec. 4, NE 1/4 Sec. 9 (R-12002, 8-11-03) Ext. S 1/2 Sec. 10 (R-12125, 3-30-04)

Ext: SE 1/4 Sec. 3 (R-12128, 6-7-04) Ext. SW 1/4 Sec. 3 (R-12228, 10-25-04)

Ext: NE 1/4 Sec. 15 (R-12309, 3-18-05)

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. 12116
Order No. R-11120

THE APPLICATION OF THE OIL CONSERVATION
DIVISION FOR AN ORDER CREATING AND
EXTENDING CERTAIN POOLS IN EDDY COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on January 7, 1999, at Santa Fe, New Mexico, before Examiner Mark W. Ashley.

NOW, on this 21st day of January, 1999, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner.

FINDS THAT:

- (1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.
- (2) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of oil from the Cisco formation, bearing the designation of Turkey Track-Cisco Pool. The Turkey Track-Cisco Pool was discovered by the Harvey E. Yates Company Palmillo "6" State Well No. 1 located in Unit K of Section 6, Township 19 South, Range 29 East, NMPM, which was completed in the Cisco formation on October 6, 1998. The top of the perforations is at 9,562 feet.
- (3) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of oil from the Delaware formation, bearing the designation of Southwest Willow Lake-Delaware Pool. The Southwest Willow Lake-Delaware Pool was discovered by the Santa Fe Energy Resources, Inc. Chapparral "10" Well No. 1 located in Unit F of Section 10, Township 25 South, Range 28 East, NMPM, which was completed in the

Case No. 12116
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Delaware formation on September 22, 1998. The top of the perforations is at 4,776 feet.

(4) There is need for certain extensions to the North Black River-Atoka Gas Pool, the Cedar Lake-Yeso Pool, the Cemetery-Morrow Gas Pool, the Cotton Draw-Bone Spring Pool, the Crow Flats-Morrow Gas Pool, the East Eagle Creek-Atoka-Morrow Gas Pool, the Livingston Ridge-Delaware Pool, the Loco Hills-Paddock Pool, and the Logan Draw-Morrow Gas Pool, all in Eddy County, New Mexico.

IT IS THEREFORE ORDERED THAT:

(a) A new pool in Eddy County, New Mexico, classified as an oil pool for Cisco production is hereby created and designated as the Turkey Track-Cisco Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH. RANGE 29 EAST. NMPM

Section 6: SW/4

(b) A new pool in Eddy County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the Southwest Willow Lake-Delaware Pool, consisting of the following described area:

TOWNSHIP 25 SOUTH. RANGE 28 EAST. NMPM

Section 10: NW/4

(c) The North Black River-Atoka Gas Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 23 SOUTH. RANGE 26 EAST. NMPM

Section 32: E/2

Section 33: N/2

Section 34: NW/4

(d) The Cedar Lake-Yeso Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 17 SOUTH. RANGE 31 EAST. NMPM

Section 19: NW/4

(e) The Cemetery-Morrow Gas Pool in Eddy County, New Mexico, is hereby extended to include:

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TOWNSHIP 20 SOUTH, RANGE 24 EAST, NMPM

Section 12: All

Section 13: N/2

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM

Section 7: W/2

Section 18: N/2

(f) The Cotton Draw-Bone Spring Pool in Eddy County, new Mexico, is hereby extended to include:

TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM

Section 3: E/2

Section 10: NE/4

(g) The Crow Flats-Morrow Gas Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM

Section 9: N/2

(h) The East Eagle Creek-Atoka-Morrow Gas Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM

Section 14: All

(i) The Livingston Ridge-Delaware Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM

Section 26: SW/4

(j) The Loco Hills-Paddock Pool in Eddy County, New Mexico, is hereby extended to include:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Section 17: NE/4

Section 22: SE/4

(k) The Logan Draw-Morrow Gas Pool in Eddy County, New Mexico, is hereby

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extended to include:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM
Section 15: E/2

IT IS FURTHER ORDERED THAT:

(1) Pursuant to Section 70-2-18, NMSA, 1978, an operator of any well that, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one presently dedicated thereto, shall have 60 days from the effective date of this order to file Form C-102 dedicating a standard unit for the pool to that well or to obtain Division approval of a non-standard unit. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain Division approval of a non-standard unit within that 60-day period shall subject the well to cancellation of allowable.

(2) The effective date of this order and all creations and extensions included herein shall be February 1, 1999.

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



SEAL

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Lori Wrotenberg
LORI WROTENBERY
Director

fd/