

Substitit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-33413
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. V-5665
7. Lease Name or Unit Agreement Name Southern Cross 15 State
8. Well Number 2
9. OGRID Number 013837
10. Pool name or Wildcat Penasco Draw; Permo Penn (Gas)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator
Mack Energy Corporation

3. Address of Operator
P. O. Box 960 Artesia, NM 88211-0960

4. Well Location
Unit Letter G 1980 feet from the North line and 1980 feet from the East line
Section 15 Township 18S Range 24E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3746' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: <u>Drill Horizontal</u> ☒		OTHER: _____ ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Southern Cross 15 State #2 Horizontal
Surface Location: 1980 FNL & 1980 FEL BHL: 1980 FNL & 660 FEL
Sec. 15-T18S-R24E

Drilling Procedure:

1. MIRU Mack Energy Completion Unit, POH with tubing & packer. Rig Up Schlumberger, RIH with CIBP and set at +6250 at top of the Cisco Formation. RIH with Whipstock Assembly, run Gyro, orient direction to East.
2. Move off Mack Energy Unit, MIRU L & M #3. RIH w/6 1/8" mill, mill 5 1/2" casing through window. RIH w/Scientific Drilling directional equipment, drill formation along designated path (See attached)
3. TD well, POH, ready for completion.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 4/27/2005
Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (505)748-1288
For State Use Only TIM W. GUM **APR 29 2005**
APPROVED BY: DISTRICT II SUPERVISOR DATE _____
Conditions of Approval (if any): _____

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-33413	Pool Code 82775	Pool Name Penasco Draw Permo Penn
Property Code 34001	Property Name SOUTHERN CROSS "15" STATE	Well Number 2
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3746'

Surface Location

UL or lot No. G	Section 15	Township 18-S	Range 24-E	Lot Idn	Feet from the 1980'	North/South line NORTH	Feet from the 1980'	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. H	Section 15	Township 18S	Range 24E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 660	East/West line East	County Eddy
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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Jerry W. Sherrell</i> Signature Jerry W. Sherrell Printed Name Production Clerk Title 4/27/2005 Date 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. JUNE 2, 2004 Date Surveyed Signature & Seal of Professional Surveyor <i>Gary E. Eidson</i> 6/7/04 04.11.0641 Certificate No. GARY EIDSON 12841
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Scientific Drilling Planning Report

Company: Mack Energy
Field: Southern Cross 15 State
Site: Eddy County, NM
Well: #2
Wellpath: 1

Date: 3/17/2005 Time: 16:53:30 Page:
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: KB ELEV. 3762.0
Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
Plan: Plan #1

Field: Southern Cross 15 State

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: Site Centre
Geomagnetic Model: igrf2005

Site: Eddy County, NM

Site Position:	Northing:	636714.40 ft	Latitude:	32 45 0.689 N
From: Map	Easting:	426110.90 ft	Longitude:	104 34 25.199 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	0.00 ft		Grid Convergence:	-0.13 deg

Well:	#2	Slot Name:						
Well Position:	+N/-S	0.00 ft	Northing:	636714.40 ft	Latitude:	32	45	0.689 N
	+E/-W	0.00 ft	Easting :	426110.90 ft	Longitude:	104	34	25.199 W
Position Uncertainty:		0.00 ft						

Wellpath:	1		Drilled From:	Surface
Current Datum:	KB ELEV.	Height 3762.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data:	3/14/2005		Above System Datum:	Mean Sea Level
Field Strength:	49479 nT		Declination:	8.81 deg
Vertical Section:	Depth From (TVD)	+N/-S	Mag Dip Angle:	60.64 deg
	ft	ft	+E/-W	Direction
			ft	deg
	0.00	0.00	0.00	90.00

Plan:	Plan #1	Date Composed:	3/14/2005
		Version:	1
Principal:	Yes	Tied-to:	From Surface

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	
6250.00	0.00	0.00	6250.00	0.00	0.00	0.00	0.00	0.00	0.00	
6824.89	105.70	90.00	6550.00	0.00	395.95	18.39	18.39	0.00	90.00	
7784.75	105.70	90.00	6290.26	0.00	1320.00	0.00	0.00	0.00	0.00	BHL

Section 1 : Start Hold

[illegible]



Scientific Drilling Planning Report

Company: Mack Energy
Field: Southern Cross 15 State
Site: Eddy County, NM
Well: #2
Wellpath: 1

Date: 3/17/2005 Time: 16:53:30 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: KB ELEV. 3762.0
Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
Plan: Plan #1

Section 1 : Start Hold

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	TFO deg
2000.00	0.00	0.00	2000.00	0.00	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	0.00
2200.00	0.00	0.00	2200.00	0.00	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	0.00
2400.00	0.00	0.00	2400.00	0.00	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	0.00
2600.00	0.00	0.00	2600.00	0.00	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	0.00
2800.00	0.00	0.00	2800.00	0.00	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	0.00
3000.00	0.00	0.00	3000.00	0.00	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	0.00
3200.00	0.00	0.00	3200.00	0.00	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	0.00
3400.00	0.00	0.00	3400.00	0.00	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	0.00
3600.00	0.00	0.00	3600.00	0.00	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	0.00
3800.00	0.00	0.00	3800.00	0.00	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	0.00
4000.00	0.00	0.00	4000.00	0.00	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	0.00
4200.00	0.00	0.00	4200.00	0.00	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	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6250.00	0.00	0.00	6250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 18.39

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	TFO deg
6275.00	4.60	90.00	6274.97	0.00	1.00	1.00	18.39	18.39	0.00	0.00
6300.00	9.19	90.00	6299.79	0.00	4.00	4.00	18.39	18.39	0.00	0.00
6325.00	13.79	90.00	6324.28	0.00	8.98	8.98	18.39	18.39	0.00	0.00
6350.00	18.39	90.00	6348.29	0.00	15.91	15.91	18.39	18.39	0.00	0.00
6375.00	22.98	90.00	6371.67	0.00	24.74	24.74	18.39	18.39	0.00	0.00
6400.00	27.58	90.00	6394.27	0.00	35.41	35.41	18.39	18.39	0.00	0.00
6425.00	32.18	90.00	6415.95	0.00	47.86	47.86	18.39	18.39	0.00	0.00
6450.00	36.77	90.00	6436.55	0.00	62.01	62.01	18.39	18.39	0.00	0.00
6475.00	41.37	90.00	6455.95	0.00	77.76	77.76	18.39	18.39	0.00	0.00
6500.00	45.97	90.00	6474.03	0.00	95.02	95.02	18.39	18.39	0.00	0.00
6525.00	50.56	90.00	6490.67	0.00	113.67	113.67	18.39	18.39	0.00	0.00
6550.00	55.16	90.00	6505.76	0.00	133.59	133.59	18.39	18.39	0.00	0.00
6575.00	59.75	90.00	6519.21	0.00	154.66	154.66	18.39	18.39	0.00	0.00
6600.00	64.35	90.00	6530.92	0.00	176.74	176.74	18.39	18.39	0.00	0.00
6625.00	68.95	90.00	6540.83	0.00	199.68	199.68	18.39	18.39	0.00	0.00

Scientific Drilling

Planning Report

Company: Mack Energy	Date: 3/17/2005	Time: 16:53:30	Page: 3
Field: Southern Cross 15 State	Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North		
Site: Eddy County, NM	Vertical (TVD) Reference: KB ELEV. 3762.0		
Well: #2	Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)		
Wellpath: 1	Plan: Plan #1		

Section 2 : Start Build 18.39

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	TFO deg
6650.00	73.54	90.00	6548.86	0.00	223.35	223.35	18.39	18.39	0.00	0.00
6675.00	78.14	90.00	6554.97	0.00	247.58	247.58	18.39	18.39	0.00	0.00
6700.00	82.74	90.00	6559.13	0.00	272.23	272.23	18.39	18.39	0.00	0.00
6725.00	87.33	90.00	6561.29	0.00	297.13	297.13	18.39	18.39	0.00	0.00
6750.00	91.93	90.00	6561.45	0.00	322.12	322.12	18.39	18.39	0.00	0.00
6775.00	96.53	90.00	6559.61	0.00	347.05	347.05	18.39	18.39	0.00	0.00
6800.00	101.12	90.00	6555.77	0.00	371.75	371.75	18.39	18.39	0.00	0.00
6824.89	105.70	90.00	6550.00	0.00	395.95	395.95	18.39	18.39	0.00	0.00

Section 3 : Start Hold

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	TFO deg
6900.00	105.70	90.00	6529.68	0.00	468.26	468.26	0.00	0.00	0.00	0.00
7000.00	105.70	90.00	6502.62	0.00	564.53	564.53	0.00	0.00	0.00	0.00
7100.00	105.70	90.00	6475.56	0.00	660.80	660.80	0.00	0.00	0.00	0.00
7200.00	105.70	90.00	6448.50	0.00	757.07	757.07	0.00	0.00	0.00	0.00
7300.00	105.70	90.00	6421.44	0.00	853.33	853.33	0.00	0.00	0.00	0.00
7400.00	105.70	90.00	6394.38	0.00	949.60	949.60	0.00	0.00	0.00	0.00
7500.00	105.70	90.00	6367.32	0.00	1045.87	1045.87	0.00	0.00	0.00	0.00
7600.00	105.70	90.00	6340.26	0.00	1142.14	1142.14	0.00	0.00	0.00	0.00
7700.00	105.70	90.00	6313.20	0.00	1238.41	1238.41	0.00	0.00	0.00	0.00
7784.75	105.70	90.00	6290.26	0.00	1320.00	1320.00	0.00	0.00	0.00	0.00



Field: Southern Cross 15 State
Site: Liberty County, NH
Well: 15-0001
Wellbore: 1
Plan: Plan #1

