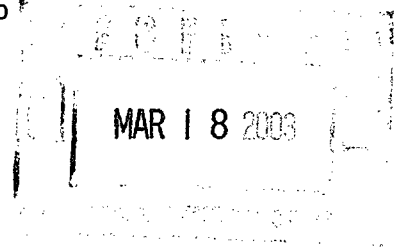




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wvJ

MYCO INDUSTRIES, INC.
OIL PRODUCERS
POST OFFICE BOX 840
ARTESIA, NEW MEXICO 88211-0840
Phone (505) 748-1471



March 11, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Re: **Application for Downhole Commingling**
Helena 25 Fee Com #1
Sec. 25, T21S, R27E, (Unit E), N.M.P.M.
Eddy County, New Mexico


Dear Ladies and Gentlemen:

Enclosed is an Application for Downhole Commingling (Form C-107A) for the above mentioned well. Attached with this application is as follows:

1. Chronological Report, APD (Form C-101) with all necessary forms.
2. Sundry Notices (Form C-105)
3. Well completion or Recompletion Report and Log (Form C-105).
4. Request for Allowable and Authorization to Transport (Form C-104).
5. Multipoint and One Point Back Pressure Test for Gas Well (Form C-122).
6. Approved Communitization Agreement Contract No. NMNM107712.
7. C-115 information from first sales in September 2002.
8. Green tab (Calculations) Cumulative Production and Sales Report.
9. A daily (strictly) production report.

Please contact our office for other information you may need at (505) 748-4288

Sincerely,


Isabel Lopez
Engineering Technician

IL/il
Enclosures

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

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

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

Oil Conservation Division

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Myco Industries, Inc.

P.O. Box 840, Artesia, NM 88211-0840

(505) 748-4280

Operator

Helena 25 Fee Com

#1

Address

(Unit E) S25,T21S,R27E

Eddy

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 015445 Property Code 28508 API No. 30-015-31909 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
	<i>UNDESIGNATED</i>		
Pool Name	<i>East Carlsbad - STRAWN Gas</i>		<i>East Carlsbad - MORROW Gas</i>
Pool Code	<i>74080</i>		<i>73920</i>
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	<i>10292' - 405'</i> (STRAWN "A - B")		<i>11446' - 582'</i> (MORROW "B")
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	Producing		Shut-In with RBP
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil <i>N/A</i> % Gas <i>35</i> %	Oil % Gas %	Oil <i>N/A</i> % Gas <i>65</i> %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application?

Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE A.N. Muncy, PELS TITLE Operations-Engineering Manager DATE 03/04/03
TYPE OR PRINT NAME A.N. Muncy, PELS TELEPHONE NO. (505) 748-4289

MYCO INDUSTRIES, INC.
CHRONOLOGICAL DRILLING REPORT
Helena 25 Fee Com #1
Unit E
25-21S-27E
Eddy County, New Mexico

WI:

Location: 1340' FNL & 1040' FWL of Section (W/2) 25-21S-27E, Eddy County, New Mexico. Elevation: 3119'. KB 17'. API NO.: 30-015-31909. PTD: 12,100' Morrow. Drilling Contractor: Pat/UTI Rig #507.

4-19-02 Drilling rat and mouse holes and lining pits. Prep to spud 4-22-02.

4-20-22-02 Drill rat-mouse holes. Set cement 60' conductor pipe, line pits and prep to spud. Rec'd 12 jts 48# H-40 13-3/8" 536.75' and 55 joints 36# J-55 9-5/8" 2447.65" (threads off).

4-23-02 Drilling 175' surface. Made 110' in 7-1/4 hours. MW 8.5, pH 8. Survey 105' 3/4 deg. Lost returns at 100'. NOTE: Notified City of Carlsbad (John Tulley) and Artesia OCD of spud. NOTE: 4-22-02 rec'd on location 12 joints 13-3/8" H-40 48# (536.75') and 55 joints 9-5/8" J-55 36# (2447.65').

4-24-02 TD 446' surface. WOC and nipping up. Made 271' in 5-1/4 hours. MW 8.3+, Vis 28, pH 10. Survey 190' 1/4 deg, 283' 1/4 deg, 446' 1-1/4 deg. TD 17-1/2" hole at 450'. Ran 10 joints 13-3/8" H-40 48# (450.17') casing with Texas Pattern shoe and insert float, set at 450.1'. Cut off 17.1'. Cemented with 400 sxs "H" Thickset + 10% A-10, 10% CaCl2, 10# Gilsonite, 1/2# CF/sx, plus 400 sxs BJ Lite 35-65-6 "C" with 2% CaCl2, 1/4# cf/sx. Tailed in with 200 sxs C + 2% CaCl2. PD 7:30 PM. Circulated 25 sxs to pit. WOC. Notified Artesia OCD for cement job. NOTE: Ran 6 sxs GW 27 before cement job.

4-25-02 Drilling 887'. Nipple up and test BOP. WOC 18 hours. Drill out with 12-1/4" bit (bit #2, EDT 25). Drilling at 887' with full returns. Made 441'. 60 RPM with 15-30,000#. MW 9.9, Vis 29. Dev 446' 1-1/4 deg, 726' 1/4 deg.

4-26-02 TD 1562'. TOH to lay down IBS. Made 675'. Lost circulation at 1560' (bit #2, 12-1/4", ETD25 - hole made = 1116'). MW 10, Vis 29, pH 10, Cl 179,000. Survey 1044' 1/2 deg and 1325' 1/2 deg.

4-27-02 Drilling 2090'. Made 528'. Bit #2 12-1/4" EDT 25 made 1644' total in 71 hours. RPM 60, WOB 20-25. MW 8.8, Vis 28, pH 9+, Cl 50,000. Drilled last 24 hours with partial to full returns. Added 30 gals GW-27. Survey 1630' 1 deg, 1994' 2-1/2 deg, 2013' 3 deg.

4-28-02 TD 2296'. Circulating and prep to run 9-5/8" intermediate. Made 206'. Bit #2 12-1/4" ETD 25, total hole made 1850' in 89.5 hours. Survey 2265' 2-1/4 deg. Ran 52 joints 9-5/8" 36# J-55 with Texas Pattern shoe and double float casing, set at 2296' (shoe). Cement with 400 sacks Thixset "H" + 10# LCM1 + 1/2# CF + 10% AV 10 + 10% CaCl2 followed with 2500 sacks BJ Lite with 5# salt + 1/4# CF + 5# LCM 1. Tailed in with 200 sacks "C" + 2% CaCl2. PD at 12:41 AM 4-28-02. Did not circulate. Randy Dutton notified Artesia OCD before and after job.

4-29-02 TD 2296'. WOC 4 hours and ran temp survey with Jarrel Wireline. TOC at 742'+/- . Ran 1" to 680' and tagged cement. Pumped 100 sacks "C" + 4% CaCl2 thru 1" and POH. WOC 2 hours and RIH with 1" and tagged cement at 500'. Pumped 200 sacks "C" + 2% CaCl2 and circulate 21 sacks to pit. WOC 18 hours and nipped up and test BOP.

4-30-02 Drilling 8-3/4" hole at 2310', made 14'. Tested shoe 500# for 30 min. Bit #3 8-3/4" ER 5537. RPM 60, WT 40,000#. MW 8.4, Vis 28, pH 9+. Footage contract. NOTE: Randy Dutton notified City of Carlsbad.

5-1-02 Drilling 2625'. Made 315' in 9-1/2 hours. MW 8.5, Vis 28, pH 10+. Survey 2429' 2 deg. WOB 50#, RPM 60, PP 1150#. Unable to make hole with packed assembly. Removed tri-collar and left 2 reamers and still unable to make hole. Now drilling with 2 roller reamers. Bit #3 8-3/4", ER 5537, hole made 329'. Footage contract.

5-2-02 Drilling 3580'. Made 995'. MW 8.5, Vis 28, Solids 0.5, pH 10. RPM 60, bit wt 55, PP 1150#. Survey 2618' 1 deg, 2992' 1/4 deg and 3482' 1/2 deg. Bit #3, 8-3/4" ER5537. Hole made 1284'. NOTE: Set mud-gas separator.

5-3-02 Drilling 4447'. Made 867'. MW 8.5, Vis 28, pH 10. Survey 3968' 1 deg. Bit #3 8-3/4" ER 5537, made 2151' hole. PP 1150#.

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MYCO Industries Inc. - Helena 25 Fee Com #1 (Unit E) 25-21S-27E

*****Eddy Co., NM****

5-4-02 (Day #12) Drilling 5144'. Made 697'. MW 8.7, Vis 28, pH 10.5, Sand 0.5. Survey 4966' 1/2 deg, 4468' 3/4 deg. Bit #3 8-3/4" ER 5537. Hole made 2848'. PP 1150#, ROT RPM 60, WOB 55. Footage contract.

5-5-02 (Day #13) Drilling 5590'. Made 446'. MW 8.8, Vis 28, pH 10.5, Sand 0.3, Cl 35,000. Survey 5441' 1-1/2 deg. Bit #3 8-3/4" ER 5537. Hole made 3222'. Bit #4 8-3/4" ER 5537. Depth in 5518'. PP 1300, Rot 60, WOB 50. Footage contract.

5-6-02 (Day #14) Drilling 6312'. Made 722'. MW 8.8, Vis 28, pH 10.5, Sand 0.4, Cl 48,000. Survey 5538' 1 deg and 6068' 1-1/2 deg. Bit #4 8-3/4" ER 5537. Hole made 794'. PP 1400, Rot 60, WOB 55. Footage contract.

5-7-02 (Day #15) Drilling 6900'. Made 588'. MW 8.9, Vis 28, pH 10, Cl 52,000. Survey 6539' 1-3/4 deg. Bit #3 8-3/4", ER 5537. Hole made 1382'. PP 1400, RPM 60, WOB 55. BHA: bit, BS, DC, 3 PT, DC, 3 PT, 27 DC (895.6'). NOTE: Mudlogger on at 6500'. Footage contract.

5-8-02 (Day #16) Drilling 7385'. Made 480'. MW 9.1, Vis 29, pH 10, Cl 72,000. Bit #4 8-3/4" ER 5537. Made 1763' hole. PP 1400#, RPM 60, WOB 55. Survey 7026' 1-1/2 deg. Formation Bone Springs. Avg ROP 20'/hr. Footage contract.

5-9-02 (Day #17) Drilling 7830' dolomite. Made 445'. MW 9.2, Vis 29, pH 10, Cl 86K. Survey 7526' 2 deg. PP 1450#, RPM 60, WOB 55. Bit #4 8-3/4" ER 5537. Hole made 2312'. Footage contract.

5-10-02 (Day #18) Drilling 8236' dolomite. Made 406'. MW 9.3, Vis 29, pH 10, Cl 86K. Survey 8009' 2-3/4 deg and 8100' 2 deg. Bit #4, 8-3/4", ER 5537. Hole made 2718'. RPM 60, WOB 55K @ 8009', WOB 35K 8057-8151', WOB 45K 8151'. Footage contract.

5-11-02 (Day #19) Drilling 8505' lime. Made 269'. MW 9.3, Vis 29, Sand 0.3, pH 10, Cl 86K. RPM 60, WOB 50-55, PP 1475#. Survey 8195' 1-3/4 deg, 8291' 1-1/2 deg and 8505' 2-3/4 deg. Bit #4 - out 8505'. Made 2987' total. Bit #5, 8-3/4" HR 38CH, in at 8505'. BHA: Bit sub, 2 drill collars, 3 pt, 27 drill collars. Footage contract.

5-12-02 (Day #20) Drilling 8108' lime. Made 203', avg ROP 9.6 MPF. MW 9.4, Vis 29, Sand 0.4, pH 10, Cl 101,000. Bit #5, 8-3/4", HR 38CH. Hole made 203'. Survey 8472' 2-3/4 deg and 8567' 3 deg. PP 1350#. Footage contract.

5-13-02 (Day #21) Drilling 8850' lime. Made 142', avg ROP 9.4 MPF. MW 9.4, Vis 29, pH 10, Cl 106,000. Survey 8660' 3-1/2 deg, 8732' 3 deg and 8786' 3-1/4 deg. PP 1350#, RPM 60, WOB 20. Bit #5, 8-3/4", HR 38 CH. Hole made 345'. Footage contract.

5-14-02 (Day #22) Drilling 9020' lime. Made 170'. MW 9.4, Vis 29, pH 10, Cl 106,000. RPM 60, WOB 30-40. Survey 8847' 2-3/4 deg and 8941' 2-3/4 deg. Bit #5, 8-3/4", HR 38CH. Hole made 515'. Footage contract until 9100'.

5-15-02 (Day #23) Drilling 9295' lime. Made 275'. MW 10, Vis 29, pH 9+, Cl 186,000. PP 1500#, RPM 60, WOB 55. Displaced hole with 10# brine at 9200'. Survey 9050' 2-1/4 deg and 9192' 2 deg. Bit #5, 8-3/4", HR 38CH. Hole made 790'. Rig on daywork at 9100'.

5-16-02 Drilling 9560' lime. Made 265'. MW 10, Vis 29, pH 10, Cl 181,000. RPM 60, WOB 55. Survey 9412' 1-3/4 deg. Bit #5, 8-3/4" HR 38CH. Hole made 1055'. NOTE: Move to steel pits to drill Wolfcamp.

5-17-02 (Day #25) Drilling 9875' lime and shale. Made 315'. MW 10, Vis 29, pH 10, Cl 181,000. Survey 9694' 1 deg. WOB 55, RPM 60, PP 1500#. Formation B/Lwr W/C. Bit #5, 8-3/4", HR 38CH. Hole made 1370' (124 hours). Rig on daywork.

5-18-02 (Day #26) Drilling 10,110' lime and shale. Made 235'. MW 10.2, Vis 30, pH 10, Cl 186,000. PP 1500, ROT 60, WOB 55. Bit #5, 8-3/4", HR 38CH, rot hours 147-3/4. Made 1605'. Day rate. NOTE: Rano Putton and Larry Cravens met with Carlsbad City Inspector (Richard Aguilar). Rig is in compliance.

5-19-02 (Day #27) Drilling 10,357' shale. Made 247'. MW 10.1, Vis 32, WL 24, Sand 1.0, pH 10, Cl 180,000. Survey 10,170' 1/4 deg. PP 1450#, RPM 60, WOB 55. Bit #5, 8-3/4", HR 38CH, rot hours 170-3/4. Hole made 1852'. Day rate.

5-20-02 (Day #28) TD 10,597' lime and shale. Working stuck pipe. Made 240'. MW 10.1, Vis 31, PV 1, YP 1, WL 18, pH 10, Cl 178,000. RPM 60, WOB 55, PP 1450#. Bit #5, 8-3/4", HR 38CH, rot hours 191.5. Hole made 2092'. Day rate.

5-21-02 (Day #29) TD 10,597' lime and shale. TOH. Made 0'. MW 10.1, Vis 31, WL 18, pH 10, Cl 178,000. Ran freepoint and back off at 7976'. Left 7 drill collars, bit sub, 3 pt reamer and bit in hole. Work stuck pipe for 19 hours (spotted 70 bbls diesel). Daywork rate.

5-22-02 (Day #30) TD 10,597' lime and shale. TIH with bit #6. Made 0'. MW 10.1, Vis 30, WL 18, pH 10, Cl 186,000. Tested drill collars. Bit #6, 7-7/8", HRC 44CH. Day rate.

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MYCO Industries Inc. - Helena 25 Fee Com #1 (Unit E) 25-21S-27E

*****Eddy Co., NM****

5-23-02 (Day #31) TD 10,597'. Made 0'. Spot 70 bbls diesel and work stuck pipe at 3900'+/- for 11-1/2 hours. Ran freepoint and back off at 4030'. RR was stuck at 4063'. POH with bit (bit, 1 collar, RR, 1 collar). Present operations - inspecting drill collars. Prep to RIH bit #6, 7-7/8", HR 44CH. Day rate contract.

5-24-02 TD 10,597'. TIH. Hole made 0'. Working tite spots in hole 4000'+/- . MW 10.2, Vis 33, WL 10, pH 10, CL 186,000. Day rate. DC \$2093.02; CC \$14,502.29

5-25-02 (Day #33) Drilling 10,612' lime and shale. Made 15'. MW 9.9, Vis 38, PV 8, YP 5, Ges 3/4, WL 10.8, Sand 1.9, pH 10, Cl 184,000. RPM 60, WOB 25/55. Ream and work tight spots 6950-7836' (23 hours). Bit #6, 7-7/8", HR 44CH. Hole made 15'. BHA: bit, sub, DC, 3 pt, 20 DC, jars, 6 DC, RT tool. Flare 5-8', Gas 900 units. Daywork.

5-26-02 (Day #34) Drilling 10,780' chert and lime. Made 168'. MW 9.9+, PV 6, YP 5, Gels 2/4, WL 7.2, Sand 3.1, pH 9.5, oIl 9, Cl 184,000. RPM 60, WOB 55. Drilled 23-1/2 hours, ROP 7.1. Bit #6, 7-7/8" HR 44CH. Hole made 183'. Dayrate contract.

5-27-02 (Day #35) Drilling 10,926' lime and shale. Made 146'. MW 10.2, Vis 35, PV 7, YP 3, Gels 3/5, WL 6, Sand 3.0, pH 10, Cl 185,000. RPM 60, WOB 55. Bit #6, 7-7/8" HR 44CH. Total hours bit 49, hole made 329'. Daywork rate.

5-28-02 (Day #36) Drilling 11,031' lime, shale and chert. Made 105'. MW 10.2, Vis 34, PV 6, YP 4, Gels 2/4, WL 8, Sand 4.1, pH 10, Cl 181,000. RPM 60, WOB 55. Bit #6, 7-7/8", HR 44CH, rot hours 74, hole made 434'. Daywork rate.

5-29-02 (Day #37) Drilling 11,095'. Made 64'. MW 10.3+, Vis 35, WL 10, pH 10, Cl 184,000. RPM 60, WOB 55, PP 1450#. Bit #7, 7-7/8", F47H. Hole made 14'. Bit #6 - pulled at 11,081' (79-1/2 hours). Made 484'. BHA: bit, BS, 1 - 6" DC, 3 pt, 20 - 6" DC, 1 set jars, 6 - 6" DC (876.93'). Daywork contract.

5-30-02 (Day #38) Drilling 11,280' lime, shale and chert. Made 185', 5'/hr. MW 10.3, Vis 35, PV 6, YP 3, Gels 2/3, WL 10, Sand 4, pH 10, Cl 184,000. Bit #7, 7-7/8", F47H, rot hours 25-3/4". Hole made 199'. RPM 60, WOB 55, PP 1350. Dayrate.

5-31-02 (Day #39) Drilling 11,450' lime and shale. Made 170'. MW 10.3, Vis 35, PV 7, YP 4, Gels 3/4, WL 7.2, Sand 4.8, pH 10, Filtrate 7.8, Cl 182,000. RPM 60, WOB 55, PP 1350#. Bit #7, 7-7/8", F47H. Hole made 369', 49-1/2 rot hours. Avg ROP 7.5'/hr. Dayrate contract.

6-1-02 (Day #40) Drilling 11,608' lime and shale. Made 158'. MW 10.3+, Vis 34, Fil 10, WL 9, pH 9, Cl 184,000. Survey 11,081' 1-1/4 deg and 11,450' 1-1/2 deg. Formation Morrow "B" with 12' drilling break 11,481-93'. RPM 60, WOB 50, PP 1300#. Bit #7, 7-7/8" F47H. Rot hours 72-1/2. Hole made 527'. Dayrate contract.

6-2-02 (Day #41) TD 11,789' lime and shale. TOH for bit change. Made 181'. MW 10.5, Vis 35, Fil 9.8, WL 9.1, pH 10, Cl 184,000. PP 1300, Rot 60, WOB 55. Formation Lower Morrow. Tite hole on trip 8750-8100'. Bit #7, 7-7/8", F47H. Total hours 93-1/4. Total hole 708'. Dayrate contract.

6-3-02 (Day #42) Drilling 11,855' lime and shale. Made 66'. MW 10.4, Vis 35, Fil 9, Gels /24, WL 8.8, Sand 5.0, pH 10, Cl 182,000. RPM 60, WOB 4/55. Bit #8, 7-7/8" F47H. Total hours 10-1/2 hours. Total hole made 66'. BHA: Bit, BS, 21 - 6" drill collars, Djars, 1 - 6" DC. Contract rate.

6-4-02 (Day #43) Drilling 11,992' Barnett Shale. Made 137'. MW 10.6, Vis 37, PV 7, Sand 5.0, WL 9.0, Cl 180,000. Rot RPM 60, WOB 55. Avg ROP 6.0'/hr. Bit #7, 7-7/8" F47H, rot. hours 33-3/4. Hole made 208'. Dayrate contract.

6-5-02 (Day #44) Driller's TD 12,020' Barnett Shale. TOH for logs. Made 28'. MW 10.4, Vis 37, PV 9, YP 6, Gels 4/7, WL 8.6, Sand 5.0, pH 10, Cl 180,000. Survey 12,020' 1-1/2 deg. Bit #8, 7-7/8", F-47H, in at 11,784'. Made 236'. RPM 60, WOB 55, PP 1500#. Dayrate contract.

6-6-02 (Day #45) Driller's TD 12,020'; Logger's TD 12,026'. Survey 1-1/2 deg at TD. Ran S/J Platform Express + Sonic. Present operation: Lay down drill pipe. Prep to run 4-1/2" casing to TD. NOTE: Rec'd 298 joints 4-1/2" P110 casing (12,272.85') threads off. Returned surface and intermediate casing not used. TAlley to follow.

6-7-02 Loggers TD 12,026'. Cement 2nd stage. MW 36, Gels 1, WL 8, pH 10, CL 184,000. Ran 276 joints (12,033') 4-1/2", P-110, 11.6# casing to TD with float shoe and float collar (up 2 joints). Present operation finishing up cement job. Detailed cement and casing report to follow. NOTE: Cement circulated on both stages.

5-8-02 (Day #48) TD 12,100'. Released rig at 6:00 PM 6-7-02. Cemented 4-1/2" casing. Cement shoe at 12,026'. Cement float collar at

DR ,

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MYCO Industries Inc. - Helena 25 Fee Com #1 (Unit E) 25-21S-27E

*****Eddy Co., NM****

11,946'. DV tool at 9007'. Stage 1: 1300 sacks 15:61:11 Poz H CSE + 5% salt + 5# LCM-1 + 0.7% FL-52 + 0.7% FL-25. Stage 2: 4200 sacks 35/65 Poz C + 6% gel + 3% salt + 0.5% FL-52 and 100 sacks "H" Neat. *N2 mud at 150 SCF/bbl (150 bbls) start of stage 2. Circulated 42 sacks on stage 1 and 288 sacks on stage 2. BJ job complete 9:10 AM 6-7-02. ***Rig released at 6:00 PM 6-7-02**

6-9-10-02 Waiting on completion unit and rig move.

6-11-02 Waiting on rig move and completion unit.
Tally on returned 13-3/8" 48# H-40
23.10' (cut-off)
37.82' (full joint)
44.55' (full joint)
Tally on returned 9-5/8" 36# K-55
23.37' (cut off)
44.50' (full joint)
42.52' (full joint)
42.55' (full joint)
Correct 4-1/2" P-110 11.6# casing rec'd on location:
Total joints rec'd 282 (not 298 jts as previously reported). Ran 276 joints and left out 6 joints (43.68', 37.55', 38.84', 39.74', 39.94', 44.25'). Cut off 32.41'.

6-12-02 Waiting on completion unit.

6-13-02 Waiting on completion unit.

6-14-02 Rig moved off location. Prep to clean location, set deadmen and start completion beginning of next week.

6-15-17-02 Waiting on completion unit.

6-18-02 Set and test anchors. MOved pulling unit to locaton. Pulling unit broke down. Brought another pulling unit from Hobbs. Nippled up BOP and shut down. Spot reverse unit and fill reverse pit with 2% KCL. Rec'd 372 joints 2-3/8" L-80. Will drill DV tool in morning. Shut down for night.

6-19-02 Ran 3-7/8" bit in hole. Tagged cement at 8955'. Drilled out cement and DV tool. Ran bit to 11,915'. Circulate clean and start out of hole. Prep to run scraper and pickle tubing tomorrow. PBTD 11,915' KB. Shut down overnight.

6-20-02 Pressure casing to 1000# after drilling DV tool - held OK. POOH with bit and ran casing scraper to 11,883' (PBTD 11,915'). Pumped 250 gals 15% down tubing and circulate to pit. Prep to run CBL and perf 11,831-40' (Morrow "C") tomorrow. Shut down overnight.

6-21-02 Complete pulling tubing. Lay down collars and scraper. Rig up JSI. Run cement bond log from wireline TD at 11,916-2200' FS. Bond looked good behind all casing. Perforate 4-1/2" P-110 11.6# casing with 3-3/8" casing gun at 11,838', 39', 40' with 2 SPF. 6 holes .36" diameter with 17.5" penetration. Casing stayed full. No pressure increase. RIH with packer. Set packer at 11,805' in 16 pts compression. Will make some swab runs Monday and acidize zone. Shut down until Monday.

6-22-24-02 Waiting on acid job.

6-25-02 SITP 0 psig. Rigged up swab. Swabbed fluid in tubing down to 6200'. Rigged down swab. Rigged up BJ. Acidize perfs 11,838', 39' and 40' (6 holes). Max pressure 8140 psi, min pressure 7019 psig. Lead with 20,000 SCF N2 pad and 500 gals 7-1/2% HCL. Flushed with 122,000 SCF N2. ISDP 7650#, 5 mins 7182#, 10 mins 6896#, 15 mins 6663#. Bled pressure to 4500 psi. Rigged down BJ. Flowed well back on 16/64" choke. TLTR 12 bbls. At 12:30 PM TP 4000 psig. 1:00 PM TP 1200 psig. 1:30 PM TP 350 psig. 2:00 PM TP 150 psig. 2:30 PM TP 100 psig. Well stayed at 100 psig until 5:00 PM, flowing 147 MCFD. Recovered no fluid. Closed well in and shut down for night.

6-26-02 SITP 2500 psig. Opened well up on 16/64" choke. Flowed donw to 150 psi in 2 hours. Rate was 220 MCFD. Opened well wide open. Pressure went down to 45 psig in 1 hour. Ran 1 cup on swab. Tagged fluid at 10,600' FS. Pulled fluid from 11,000'. Recovered 2 bbls water. Closed choke back to 16/64". Well built to 200 psig flowing 294 MCF. Released packer and start out of hole. Shut down overnight.

6-27-02 SITP 500 psig. Complete pulling packer out of hole. Shut well in. Could not get wireline truck until Friday morning. Will set RBP over Lower Morrow "C" zone and prep to perf Morrow "B". Shut in overnight.

6-28-02 A decision was made not to perf any more zones in the Morrow "C" now. Laid down 13 joints. Rigged up JSI. Run and set RBP at 11,730'. Load and test plug with 45 bbls 2% KCL. Plug held good. Perf Morrow "B" at 11,446', 52', 84', 85', 86', 91', 92', 94', 11,535', 43', 50', 66', 68', 80' and 82' with 15 - .43" holes with 31.8" penetration. NOTE: 11,491', 492', 550' shots did not fire.

Will re-shoot in morning. Incomplete. Shut down overnight. Acid job set up for Monday.

6-29-02 SIP 0 psi. Rigged up JSI. Perf Morrow "B" at 11,491', 92' and 11,550' with 1 SPF - .38" holes. Run and set packer at 11,376'. TESTED casing to 1000 psi, held good. Swabbed 2% from tubing. Shut down for weekend. Acidize with N2 set up for Monday.

6-30/7-1-02 Shut down for weekend. Acid job with N2 set up for Monday.

7-2-02 SITP 250 psig. Rigged up BJ and acidize Morrow "B" perfs 11,446', 52', 84', 85', 86', 91', 92', 94', 11,535', 43', 50', 66', 68', 80' and 82' (15 holes - .43") with 1500 gals 7-1/2% HCL with 1000 SCF N2/bbl. Dropped 12 - 7/8" 1.3 SG balls spaced evenly during job. Could not see action due to N2 cushion. Rate during entire job avg'd 3 BPM. Flush with 85,497 SCF/N2 to top perf. ISIP 6320, 5 mins 6140#, 10 mins 6040#, 15 mins 5977#. TLTR 38 bbls. Rigged down BJ. Opened well up on 16/64" choke. TP 4800 psi. Flowed 2 hours. Pressure down to 200 psi. Opened choke wide. Pressure dropped to 0 psi in 1 hour. Rigged up swab. Made 8 runs - last 3 from packer at 11,386'. Recovered 28 bbls load. Small gas flow after each run. Shut well in at 4:00 PM. TLTR 10 bbls. Shut down overnight.

7-2-02 SITP 250 psig. Rigged up BJ and acidize Morrow "B" perfs 11,446', 52', 84', 85', 86', 91', 92', 94', 11,535', 43', 50', 66', 68', 80' and 82' (15 holes - .43") with 1500 gals 7-1/2% HCL with 1000 SCF N2/bbl. Dropped 12 - 7/8" 1.3 SG balls spaced evenly during job. Could not see action due to N2 cushion. Rate during entire job avg'd 3 BPM. Flush with 85,497 SCF/N2 to top perf. ISIP 6320, 5 mins 6140#, 10 mins 6040#, 15 mins 5977#. TLTR 38 bbls. Rigged down BJ. Opened well up on 16/64" choke. TP 4800 psi. Flowed 2 hours. Pressure down to 200 psi. Opened choke wide. Pressure dropped to 0 psi in 1 hour. Rigged up swab. Made 8 runs - last 3 from packer at 11,386'. Recovered 28 bbls load. Small gas flow after each run. Shut well in at 4:00 PM. TLTR 10 bbls. Shut down overnight.

7-3-02 SITP 500 psig. Opened well up on 16/64" choke. Flowed approx 1 hour. Well died. Rigged up swab and tagged fluid at 9100'. Recovered 4 bbls, 2nd run tagged fluid at 11,000'. Recovered 4 bbls. 3rd run tagged fluid at 11,320', pulled from packer at 11,368'. Recovered no fluid, very little gas after runs. TLTR 2 bbls. Shut down until next Monday. Will evaluate for frac.

7-4-02 SITP 500 psig. Opened well up on 16/64" choke. Flowed approx 1 hour. Well died. Rigged up swab. Tagged fluid at 9100'. Recovered 4 bbls, 2nd run tagged fluid at 11,000' and recovered 4 bbls, 3rd run tagged fluid at 11,320' and pulled from packer at 11,368'. Recovered no fluid and very little gas flow after runs. TLTR 2 bbls. Shut down til next Monday. Will evaluate for frac.

7-5-02 Shut in til next Monday.

7-6-02 Shut in until Monday.

7-7-02 SITP 1650 psig.

7-8-02 SITP 1850 psig. Will run swab this AM and check for fluid entry. Evaluate for frac via 4-1/2" casing.

7-9-02 SITP 1850 psi. Blew well down. Run swab and tag fluid at 6700' FS. Recovered 5 bbls. 2nd run tagged fluid at 8800'. Recovered 4 bbls. On 3rd run tagged fluid at 10,430' FS and recovered 4 bbls. On 4th run pulled fluid from SN. Recovered no fluid. Recovered all load from acid job + 9 bbls formation water. Waited 4 hours. Made swab run and tagged fluid at 10,700'. Recovered 1 bbls. Caught sample and took to BJ lab. Shut down for night. NOTE: BJ Lab reported water sample as formation water.

7-10-02 SITP 250 psig. Nippled down tree and nipped up BOP. Released packer. Pull and lay down 2-3/8" tubing. Nippled down BOP. Shut well in. Morrow "B" frac is set up for 7-16-02. Shut down til frac.

7-11-02 Well shut in. Frac set up for 7-16-02.

7-12-15-02 Shut in waiting on frac next Tuesday (Morrow "B").

7-16-02 Shut in. Prep to frac Morrow "B" perfs.

7-17-02 Rigged up BJ and pumped 1000 gals 7.5% HCL. Frac in 3 stage (via 4-1/2" casing) with 31,500# Ceramax I 20/40 sand. Fluid commingled with CO2 and N2. Slightly overflushed past top perf. Max pressure 7656 psi, avg rate was 20 BPM. ISDP 6402 psi, 5 mins 5873 psi, 10 mins 5720 psi, 15 mins 5590 psi. TLTR 318 bbls. Rigged down BJ. Flow well back 4 hours. Initial pressure 4900 psi, final pressure 1500 psi. Recovered 128 bbls load. TLTR 190 bbls. No and flowing back. Will continue flowing back in morning. Shut down overnight.

7-18-02 SITP 2150#. Flowed well 9-1/2 hours on 16/64" choke. Pressure dropped to 250 psi. Well unloaded approx 12 bbls load water. TLTR 178 bbls. Vapor mist from well would not ignite. Rigged up JSI

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and ran 1-1/2 sinker bar to tag sand at 11,614' FS. No perfs covered, 116' sand on RBP over Morrow "C". Well built to 50 psi while JSI tagged sand (1 hour). Shut down overnight. Will resume flowing back in morning.

7-19-02 SITP 1100 psi. Flowed for 6 hours on 16/64". Pressure dropped to 145 psi. Unloaded 4 bbls load water. Gas still would not burn. Put on 8/64" choke for 4 hours. Pressure started building slowly. Shut well in with tubing pressure of 215 psi. Flow rate approx 75 MCF. Shot fluid level and found fluid level around 900' from surface (may not be solid fluid). Gas was beginning to burn just before shut well in at 6:00 PM. Will continue to flow test well in morning. TLTR 174 bbls.

7-20-02 SITP 850 psi. Blow well down. Nipple down frac valve. Nipple up BOP. Start running packer in hole. Well started to flow with 240 joints in hole. Pumped 30 bbls 2% KCL well on vacuum. Finish running packer. Rig up BJ. Pumped 2% KCL with 139,000 SCF N2 circulated bottoms up twice to try and assure all sand is out of casing. Set packer at 11,382' on 346 joints tubing. Load casing with 70 bbls 2% pressure to 1000 psi held good. Pumped 140 bbls 2% during N2 job. Returned 180 bbls. TLTR = 134 bbls from frac job. Shut down. Will start swabbing Monday.

7-21-02 SITP 1950#.

7-22-02 SITP 2100#. Prep to flow - swab test well.

7-23-02 SITP - 2200 psi. Blew well down to 500 psi. Rig up kill truck. Kill well with 18 bbls 2%. Nipple down BOP. Nipple up tree. Make two swab runs FL at surface. Pull from 400'. Well kicked off flowing. Recovered 38 bbls fluid. Well flowed until 1 PM with tubing pressure averaging 75 psi, then well died. Made swab run. Pulled fluid from SN. Recovered 3 bbls. Put choke on 8/64" tubing pressure started rising from 3 PM until 6 PM. Pressure rose to 650 psig. Well was flowing 246 MCF. Shut well in at 9 PM. Total load recovered 41 bbls. TLTR = 93 bbls.

7-24-02 1500 psi (10 hour build up). Blew well down to tank. Recovered 10 bbl load. Made 3 swab runs. Only recovered 1 bbl each run pulling fluid from SN. Set choke on 10/64th left flowing all afternoon, pressure built up to 450 psi at 4:30 PM. Pressure averaged 400 psi on the 10/64th which is 221 MCF/day rate. TLTR = 80 bbls. Shut well in. Released rig and all work-over related equipment.

7-25-02 SITP 1950#.

7-26-02 Shut in - no report.

7-27-28-02 Shut in - no report.

7-29-02 SITP 3350#.

7-30-02 SITP 3440#. GIH with 3 day bottom hole pressure buildup.

7-31-02 SITP 3440#. Shut in for 72 hour pressure bomb build up.

8-1-02 SITP 3460#. Well shut in for 27 hours pressure bomb buildup. Pipe returned from Helena 25 Fee Com #1 - 6 joints 4-1/2".

8-2-02 SITP 3490. JSI should pull bombs today.

8-3-02 SITP 3500#. 72 hour BOP 4831 psi. Initial BHP when instrument o bottom after well shut in approx 5 days was 4736 psi. BHT 189 deg F. No fluid found in hole. Well is SIWOPLC.

8-4-5-02 Well is SIWOPLC until further notice.

8-6-02 Well is SIWOPLC.

8-7-02 Well is SIWOPLC.

8-8-02 Well is SIWOPLC.

8-9-02 Well is SIWOPLC.

8-10-12-02 Well is SIWOPLC.

8-13-02 Well is SIWOPLC.

8-14-02 Well is SIWOPLC.

8-15-02 Well is SIWOPLC.

8-16-02 Well is SIWOPLC.

8-17-19-02 Well is SIWOPLC.

8-20-02 R-O-W pipeline approved. Prep to start pipeline construction.

8-21-01 Well is SIWOPLC.

8-22-02 Well is SIWOPLC.

8-23-02 Well is SIWOPLC.

8-24-26-02 Well is SIWOPLC.

8-27-02 Well is SIWOPLC. SITP 3600 psig. Rigged up Pro Well Testers. Switch thru tester at 11:30 AM.

8-28-02 Well is SIWOPLC. 24 hour test - TP 650 psig. Back pressure 600 psig. Total MCF 237, no oil, 34 bbls water. TLTR 46 bbls (from prior frac job). Well presently flowing 71 MCF at 650 psig. Still on test unit.

8-29-02 Well is SIWOPLC. 24 hour test - TP 650 psig. Back pressure 600 psig. Total MCF 41, no oil, 19 bbls water. TLTR 27 bbls (from prior frac job). Still on test unit.

8-30-02 Well is SIWOPLC. 24 hour test - TP 650 psig. Back pressure 600

psig. Total MCF 50, no oil, 21 bbls water. TLTR 6 bbls (from prior frac job). Still on test.

8-31-02 Well is SIWOPLC. 24 hour test - TP 650 psig. Back pressure 600 psig. Total MCF 70, 0 bbls oil and 22 bbls water. All load water recovered + 16 bbls. Will start lowering back pressure to simulate well on compression. Still on test.

9-1-02 Well is SIWOPLC. 24 hour test - TP 460 psig. Back pressure 450 psig. Total MCF 125, 0 bbls oil and 33 bbls water.

9-2-02 Well is SIWOPLC. 24 hour test - TP 400 psig. Back pressure 350 psig. Total MCF 94, 0 bbls oil and 24 bbls water.

9-3-02 Well is SIWOPLC. 24 hour test - TP 340 psig. Back pressure 300 psig. Total MCF 95, 0 bbls oil and 18 bbls water.

9-4-02 Well is SIWOPLC. 24 hour test - TP 240 psig. Back pressure 215 psig. Total MCF 83, 0 bbls oil and 22 bbls water.

9-5-02 Well is SIWOPLC. 24 hour test - TP 210 psig. Back pressure 155 psig. Total MCF 90, 0 bbls oil, 19 bbls water. B & H stringing 4" pipe starting to weld line up today.

9-6-02 Well is SIWOPLC.

9-7-02 Well is SIWOPLC. TP 3000 psig.

9-8-02 Well is SIWOPLC. TP 3000 psig.

9-9-02 Well is SIWOPLC. TP 3000 psig. B & H should complete pipeline today. Will set tank and stackpack today.

9-10-02 Well is SIWOPLC. TP 3000 psig. B & H should complete pipeline today. Will set tank and stack-pack today.

9-11-02 Shut in waiting on battery hookup. TP 3000#.

9-12-02 Well is SIWO battery hookup. TP 3000#.

9-13-02 SITP 3200 psi. Building battery.

9-14-02 SITP 3220 psi. Building battery.

9-15-02 SITP 3220 psi. Building battery.

9-16-02 SITP 3250 psi. Building battery.

9-17-02 SITP 2180 psi. Building battery.

9-18-02 SITP 3260 psi. Building battery.

9-19-02 SITP 3280 psi. Building battery.

9-20-02 SITP 3280 psi, building battery.

9-21-02 SITP 3320 psi. Started well flowing to sales at 4:00 PM - rate 500 MCF/day.

9-22-02 TP 1025# and CP 0# on 6/64" choke - 281 MCF, 0 BO and 0 BW. LP 528#.

9-23-02 TP 1060# and CP 0# on 6/64" choke - 132 MCF, 0 BO and 0 BW. LP 495#.

9-21-23-02 No report.

9-24-02 TP 950# and CP 0# on 6/64" - 92 MCF, 0 bbls oil and 6 bbls water. LP 502#.

9-25-02 TP 1290# and CP 0# on 6/64" choke - 60 MCF, 0 bbls oil and 0 bbls water (for 20 hours, well down 4 hours to work on stack pack). LP 497#.

9-26-02 TP 1000# and CP 0# on 6/64" choke = 58 MCF, 0 bbls oil and 2 bbls water. LP 493.

9-27-02 TP 815# and CP 0# on 6/64" - 53 MCF, 0 bbls oil and 0 bbls water. LP 499#.

9-28-02 TP 740# and CP 0 on 6/64" choke - 47 MCF, 0 bbls oil and 0 bbls water. LP 491.

9-29-02 TP 645# and CP 0 on 6/64" choke - 40 MCF, 0 bbls oil and 0 bbls water. LP 503.

9-30-02 TP 550# and CP 0 on 6/64" choke opened to 16/64" overnight - 35 MCF, 0 bbls oil and 0 bbls water. LP 503.

10-1-02 TP 510# and CP 0# on 16/64" choke - 0 bbls oil, 0 bbls water and 30 MCF. LP 514#.

10-2-02 TP 539# and CP 0# on 12/64" - 17 MCF, 0 bbls oil and 38 bbls water (MCF rate was 110 after unloading water). LP 529#.

10-3-02 TP 585# and CP 0# on 12/64" - 0 bbls oil, 15 bbls water and 142 MCF (rate was 80 MCF). LP 570#.

10-4-02 TP 540# and CP 0# on 12/64" - 0 bbls oil, 19 bbls water and 91 MCF. LP 535#.

10-5-02 TP 510# and CP 0# on 12/64" choke - 0 bbls oil, 11 bbls water and 81 MCF. LP 500#.

10-6-02 TP 540# and CP 0# on 12/64" choke - 0 bbls oil, 8 bbls water and 80 MCF. LP 531#.

10-7-02 TP 550# and CP 0# on 12/64" choke - 0 bbls oil, 3 bbls water and 72 MCF. LP 546#.

10-8-02 TP 532# and CP 0# on 12/64" - 0 bbls oil, 7 bbls water and 67 MCF. LP 522.

10-9-02 (GAS WELL IP) TD 12,026; PBTD 11,915'. API No.: 30-015-31909. On a Official Potential test taken 9-27-02 FTP 888# on 0.50" choke = 161 MCFGPD, 0 BOPD and 0 BWPD through perforations 11,466-11,582' Morrow. POOL: Und Carlsbad Morrow, East. WELL IS PRODUCING.

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11-15-02 **We have 26 joints 2-3/8" N-80 tubing left from completion of well. Pipe on rack at Carson #1-Y.

12-5-02 Moved in pulling unit and rigged up. Blew well down. Pumped 20 bbls PW down tubing to keep dead. Nipped down tree. Nipped up BOP. Released packer and tagged fill at 11,613' (117' sand on RBP). Pulled 260 joints tubing. Shut down overnight.

12-6-02 Complete pulling packer. RIH with shoe, 2 flappers, 21 joints tubing, bailer and 6' sub (BHA length - 710.38'). Run tubing from derrick. Tagged fill at 11,613'. BAiled sand to 11,683'. Bailer stopped stroking. Cleaned 70' of frac sand. POH and shut down. Will run new bailer in morning and clean 47' more of sand

12-7-02 Re-dress bailer. RIH and tagged sand at 11,683'. BAiled sand to 11,730'. Work bailed several times on RBP. Pulled bailer. Picked up retrieving head and start in hole. TLTR 194. Shut down overnight.

12-8-02 Complete running retrieving tool. Could not latch onto RBP. Rigged up pump truck. Pumped down tubing to wash trash off RBP. Latched onto RBP. REleased RBP and POH. Rigged up JSI and run junk basket and gauge ring to 11,902'. Tagged bottoms. Last recovered TD was 11,915'. New TD 11,902'. Pulled junk basket and gauge ring. RIH wth wireline set RBP and set at 11,830'. Top of plug at 11,825'. Bottom at 11,834'. Pull setting tool to 11,800', then ran back and tagged plug. Plug is in place. POH. Closed BOP. Shut down til Monday. TLTR 244.

12-9-02 No well work Sunday. TLTR 244

12-10-02 Run Arrow Set packer in hole. Nipped down BOP. Nipped up tree. Packer in 16 points compression. 355 joints 2-3/8" L-80, SN, packer. Packer at 11,682', SN at 11,681'. End of tubing at 11,689'. Will perf in morning. TLTR 244

12-11-02 TP 0#, CP 105#. Rigged up JSI with 5K lubricator. Loaded tubing with 13 bbls 2% KCL. Fluid level +/- 3300' FS. Run 1-9/16" guns in hole and correlate to spot with log. Perf'd Morrow "C" at 11,798', 11,805' and 11,807' (1 SPF) with 3 - .20" holes, 10.97" penetration. No pressure to surface. Pulled guns and run back in hole. FL around 200' FS. Spot guns and perf Morrow "C" from 11,775', 78', 87', 90' and 95' (1 SPF) with 5 - .20" holes, 10.97" penetration. Pulled guns. Had 30 psi on lubricator. Blew right down instantly. Run back in hole. FL at 475' FS. Spot guns and perf Morrow "C" at 11,754' and 60' (1 SPF) with 2 - .20" holes, 10.97" penetration. Slight puff at surface. Pulled guns. Rigged down JSI. Rigged up swab and made 4 runs. Start FL at 700' FS. FFL 6300' FS. Recovered 18 bbls fluid. No entry fluid between runs, small trace of gas after each run. Shut down - will acidize tomorrow.

12-12-02 TP 80# and CP 210#. Blew down rig and rigged up swab. IFL 1600' FS. Made 15 swab runs and recovered 70 bbls 100% water. Fluid level staying at 3500' FS. Approx 18 bbls/hr fluid entry. BJ Servcies equipment started showing up around 3:30 PM. Methanol was delayed until 5:00 PM. Re-scheduled acid job for 7:00 AM.

12-13-02 TP 100# and CP 150#. Blew down. Rigged up swab.

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First run tagged fluid at 1600'. Made 27 runs and recovered 155 bbls (100% water). Fluid level hanging around 2200' from surface, no show of gas. Shut down over weekend.

12-14-02 TP 100# and CP 150#. Blew down. Rigged up swab. First run tagged fluid at 1600'. Made 27 runs and recovered 155 bbls (100% water). Fluid level hanging around 2200' from surface, no show of gas. Shut down over weekend.

12-15-02 Shut down over weekend.

12-16-02 Made 3 swab runs. Fluid at 1600' FS. Recovered 18 bbls - all water. Got water sample from last swab run taken to BJ lab. Rig down moved off. Shut in for evaluation. Will run BHP bomb 24 hours Friday.

12-17-02 SITP 60 psig and SICP 150 psig. Shut in.
WATER ANALYSIS: 11,754-11,807' Helena Morrow "C"
pH 5.98
Sp. gravity 1.031
Sodium 18,420 ppm
Calcium 1439 ppm
Magnesium 189 ppm
Iron 470 ppm
Chlorides 32,000 mg/l
Sulfates 188 ppm
Bicarbonates 1775 ppm
Tot diss Solids 53,519 ppm
Tot Hardness 4370 ppm
Resistivity 0.13496

12-18-02 SITP 65 psig and SICP 150 psig. Shut in.

12-19-02 Shut in. SITP 70 psig. SICP 360 psi. Bled casing down.

12-20-02 SITP 30 psig, SICP 125 psig. JSI installed 24 hour pressure bomb this morning. Will pull in morning.

12-21-02 SITP 30 psig. SICP 220 psig. JSI pulled 24 hour pressure bomb this morning.

12-22-02 SITP 15 psig. SICP 40 psig. JSI pulled 24 hour pressure bomb this morning. Opened casing and left open so pressure will not build up.

12-23-02 SITP 15 psig, SICP 0. Well is shut in. Casing open to atmosphere.

12-24-02 Well is shut in.

12-25-02 Well is shut in for evaluation.

12-25-02 Well is shut in for evaluation.

12-26-02 Well is shut in for evaluation.

12-27-29-02 Well is shut in.

12-30-02 Well is shut in.

12-31-02 Well is shut in.

1-1-03 Well is shut in.

1-2-03 Well is shut in.

1-3-5-03 Well is shut in.

1-6-03 Well is shut in.

1-7-03 Moved in pulling unit and rigged up. Shut down.

1-8-03 Nippled down tree and nipped up BOP. Released packer. Start POOH. Transmission went out on rig. Shut down for repair. Mechanic said should be ready around lunch tomorrow.

1-9-03 Complete repair on rig. Pulled packer. Ran in hole with retrieving tool. Could not latchup to RBP at 4:20 pm. Set up pump truck to wash trash off plug first thing in morning.

1-10-03 Rigged up pump truck. Pumped 25 bbls water down tubing. Latched on and released RBP. POOH with plug. Rigged up JSI. Ran junk basket to 11,750'. Pulled basket then ren and set CIBP at 11,700'. Bailed dump 35' of Class "H" cement. TOC = 11,695'. Started run packer in hole to clean up Morrow "B". Ran 112 stands in hole. Shut down for weekend.

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1-11-03 Shut in.

1-12-03 Shut in.

1-13-03 Complete running packer on 345 joints 2-3/8" L-80. Loaded casing with 20 bbls 2% KCL. Pressured to 500 psig, held good. Packer at 11,347' in 15K tension. Rigged up to swab and clean up Morrow "B" perfs 11,446-11,582'. Initial fluid level 1600' FS. FFL 5500' FS. Made 14 runs and recovered 66 bbls water. Gas show after last few runs. Shut down overnight. Will continue to clean up Morrow "B" in morning.

1-14-03 SITP 450#. CP puff. 15 hour shut in. Started swabbing. Initial fluid level 4500' FS. Ending fluid level at 11,347' (packer). Gas show after every run. Made 15 runs and recovered 61 bbls water. Shut in overnight.

1-15-03 TP 650# and CP 0#. 15 hour shut in. Started swabbing. Initial fluid level 6000' FS. Made 13 runs - last 3 runs pulled from from packer. Recovered 44 bbls water. Left well open to sales line to 10/64" choke.

1-16-03 TP 170# and CP 0# on 10/64" choke. Well flowed 4 MCF overnight. Tagged fluid at 5700'. Made 8 swab runs and recovered 25 bbls wter. Last 4 runs pulled from packer. Shut well in overnight.

1-17-03 TP 960# and CP 0#. Blew well down. Made 2 swab runs. On 1st run hit scattered fluid from 2000-11,000'. Recovered 4 bbls water. On 2nd run pulled fluid from packer. Recovered 1 bbl water. Shut well in. Key is replacing sand line on rig. Shut down for weekend.

1-18-03 TP 1375# and CP 0#. Shut in to build up.

1-19-03 TP 1850# and CP 0#. Dropped 2 soap sticks and opened well to sales.

1-20-03 TP 170# and CP 0# - 43 MCF and 5 bbls water. Made 1st swab run. Initial fluid level at 4800'. Released packer and started swabbing backside fluid down. Final fluid level 8000' from surface. Recovered 81 bbls water. Backside capacity was 114 bbls. Will continue swabbing until around Noon tomorrow, then pull packer and prep to run and set RBP around 10,600'.

1-21-03 TP 540# and CP 465#. Swabbed another 35 more bbls water from well. Total swabbed from backside 116 bbls. Pulled out with packer. Picked up RBP and RIH to 10,660'. Set and get off RBP. Will circulate well in morning and test plug. Plan to perf Strawn "A" & "B" in afternoon.

1-22-03 Rigged up pump truck. Circulated well with 2% KCL. Pressure up on RBP to 1000 psig, held good. Pulled tubing OOH. Rigged up JSI. Perforated Strawn "B" at 10,394', 95, 96', 98', 10,401', 405' with 2 SPF (12 - .43" holes) and 32.4" penetration, no gas to surface. 2nd run perf Strawn "A" at 10,292', 93', 10,313', 14' with 1 SPF (4 - .43" holes) and 32.4" penetration, no gas to surface. Wireline operator noted fluid level rose from 1100' to 800' from surface after 2nd run. Start in hole with packer. Ran 50 joints 2-3/8" L-80 tubing in hole. Shut down overnight. AT 7:00 AM 1-23-03 Overnight SIP 1510 psig.

1-23-03 SIP 1550 psig. Complete running on/off tool and packer on 311 joints 2-3/8" L-80 tubing. Nippled down BOP. Set packer at 10,233'. Loaded casing with 8 bbls 2% KCL and pressured to 1000 psi for 10 mins, held good. Nippled up tree. Rigged up swab. IFL at surface. Made 5 runs and recovered 29 bbls water. Ending fluid level 7600' from surface. Well flowing 30 MCF. Shut well in. Acid job set up for in morning. Overnight SITP 2700 psig.

1-24-03 SITP 2700 psig. Rigged up BJ and acidized Strawn "A" and "B" perfs 10,292', 293', 10,313', 14', 10,394',

MYCO Industries - Helena 25 Fee Com #1 (Unit E) 25-21S-27E Eddy Co.

*****NM*****

95', 96', 98', 10,401', 05' with a total of 16 holes with 2000 gas 15% HCL. Flushed to bottom perf with 2% KCL. Dropped 24 - 7/8" balls in sets of 3. Max pressure 7000 psi, min pressure 5800 psi, avg pressure 6300 psi. Good ball action on first 9 balls, fair action on remainder of balls. Avg rate during job was 4 BPM. ISDP 4100 psi, 5 mins 3950 psi, 10 mins 3800 psi. TLTR 90 bbls. Rigged down BJ. Flowed and swabbed back 79 bbls load, last 2 swab runs from packer. TLTR 11 bbls. Left well flowing on 12/64" choke - tubing pressure was 140 psi and climbing. Rate was 112 MCF/day.

1-25-03 TP 125 psig. Well flowed 96 MCF and no fluid on 12/64" choke. Will try to get 160 psi back pressure to see what well will deliver overnight.

1-26-03 TP 200 psig. Well flowed 78 MCF and no fluid on 10/64" choke. Switched well to sales at 11:30 AM Sunday morning.

1-27-03 TP 205# on 64/64" choke, back pressure 200 psig and CP 0#. LP 173#. Well made 0 bbls oil, 0 bbls water and 77 MCF. NOTE: Well producing from Strawn "A" 10,292-93', 10,313-14' and Strawn "B" 10,394', 95', 96', 98', 10,401', 405' with 16 - .43" holes. Left RBP over Morrow "B" perms. Called Wildcat to gather fresh gas analysis. Rig down pulling unit and released all rental equipment. Cleaned location up and moved off. TLTR 11 bbls. Well turned to sales line 1-26-03 at 12:00 PM. Rate approx 100 MCFD (Strawn 10,292-405'). Prep to run BHP bomb and evaluate for frac. Turned to production. FINAL REPORT

MYCO, Industries - Helena 25 Fee Com #1 (Unit E) 25-21S-27E Eddy Co
*****NM*****

2-18-03 TP 200# on 16/64" choke and CP 0# - 0 bbls oil, 0 bbls water and 19 MCF. LP 181. Rigged up BJ. Acidized Strawn A & B perfs 10,292', 93', 10,313', 14', 10,394', 95', 96', 98', 10,401' and 405' (16 holes) with 20,000 gals 15% HCL. Dropped 4 ball sealers. Some ball action when balls hit perfs. Min pressure 4289, max pressure 7633, avg pressure 5800 psi. Flushed with 2% KCL past bottom perf 10 bbls. ISDP 4850, 5 mins 4229 psi, 10 mins 4314 psi, 15 mins 4228 psi. Rigged BJ down. TLTR 528 bbls. Flowed back 9-1/2 hours to pit. Recovered est 210 bbls water. Shut in at 9:00 PM. TP was 150 psig. Will continue flowing back in morning.

2-19-03 TP 1100 psig after 10 hours shut in. Opened well up on full choke to blow down. Initial fluid level at 1300'. Made 14 runs, ending fluid level at 6000'. Recovered 65 bbls water. Good gas blow after each run. Will resume swabbing in morning. TLTR 253 bbls.

2-20-03 TP 1200 psig. Blew well down. Initial fluid level at 4200'. Made 14 runs. Ending fluid level scattered to 6200' to 10,241'. Last few runs pulled from 10,241'. Recovered 63 bbls load water. With well flwing on full open choke TP is 25 psi. Approx 373 MCF/day, 20' flare to pit. Will swab until around noon tomorrow then go to sales. TLTR 190 bbls. SION.

2-21-03 Turned over to production.

2-24-03 Blow well down. Run swab. Tagged fluid at 8600'. Scattered fluid to packer. Made 5 runs and recovered 6 bbls water. Rig down swab. Leave well flowing and move off. TLTR 170 bbls. Turned over to production.

FINAL REPORT

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

DISTRICT II
811 South First, Artesia, NM 88210

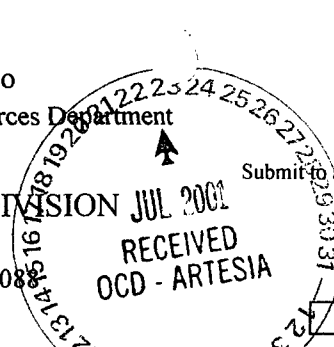
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 8750

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO BOX 2088
Santa Fe, NM 87504-2088



Form C-101
Revised March 17, 1999
Instructions on back
Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

¹ Operator Name and Address MYCO INDUSTRIES, INC. P.O. BOX 840 Artesia, New Mexico 88211-0840		² OGRID Number
		³ API Number 30- 015-31909
⁴ Property Code 28508	⁵ Property Name HELENA 25 FEE COM	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
E	25	21S	27E		1340'	NORTH	1040'	WEST	EDDY

⁸ Proposed 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/West Line	County
⁹ Proposed Pool 1 UND. CARLSBAD MORROW, EAST					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code FEE	¹⁵ Ground Level Elevation 3119'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,100'	¹⁸ Formation MORROW	¹⁹ Contractor KEY RIG #37	²⁰ Spud Date 8/10/2001

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/feet	Setting Depth	Sacks of Cement	Estimated TOC
17"	13 3/8"	48#	450'	550	CIRC.
12 1/4"	9 5/8"	36#	2,300'	900	CIRC.
8 3/4"	5 1/2"	17#	12,100'	900	TOC>8100'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new production. Describe the blowout prevention program, if any. Use additional sheets if necessary.

MYCO proposes to drill & test the Morrow and intermediate formations. 40' of conductor pipe will be set and cemented. A BOP will be installed on the 9-5/8" and tested daily. Cement to cover all oil, gas and water zones. MYCO will notify NMOCD of spud and time to witness cementing the surface and intermediate strings. A mud-gas separator will be installed and tested prior to drilling the Wolfcamp. Mud Program: 0-2500' fresh water, 2500-8300' fresh water unless CI become excessive, 8300-10,000' Cut brine, 10,000'-TD 9.2-10.0 ppg, vis 36 and wl<10.

NOTE: THIS WELL IS IN THE CARLSBAD CITY LIMITS. CARLSBAD CITY PERMIT ATTACHED.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>A.N. Muncy, PELS</i>		OIL CONSERVATION DIVISION	
Printed name: A.N. MUNCY		Approved by: ORIGINAL SIGNED BY TIM W. GUM	
Title: OPERATIONS AND ENGINEERING MGR.		Title: DISTRICT II SUPERVISOR	
Date: 07/19/01		Approval Date: JUL 23 2001 Expiration Date: JUL 23 2002	
Phone: (505) 746-0246		Conditions of Approval Attached <input type="checkbox"/>	

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

DISTRICT III
1000 Rio Brancos Rd., Artec, NM 87410

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		UND. CARLSBAD MORROW, EAST
Property Code	Property Name	Well Number
	HELENA	1
OGRID No.	Operator Name	Elevation
	MYCO INDUSTRIES, INC	3119

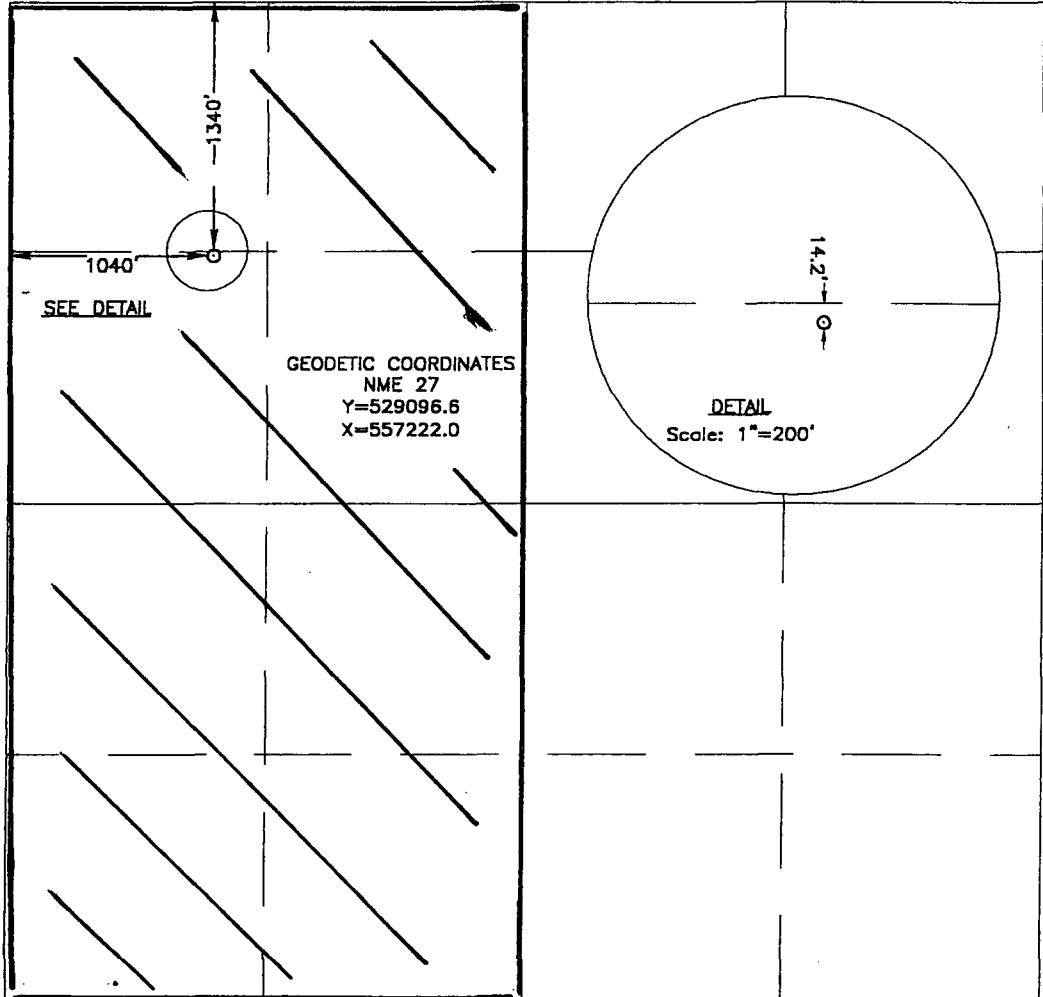
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	21 S	27 E		1340	NORTH	1040	WEST	EDDY

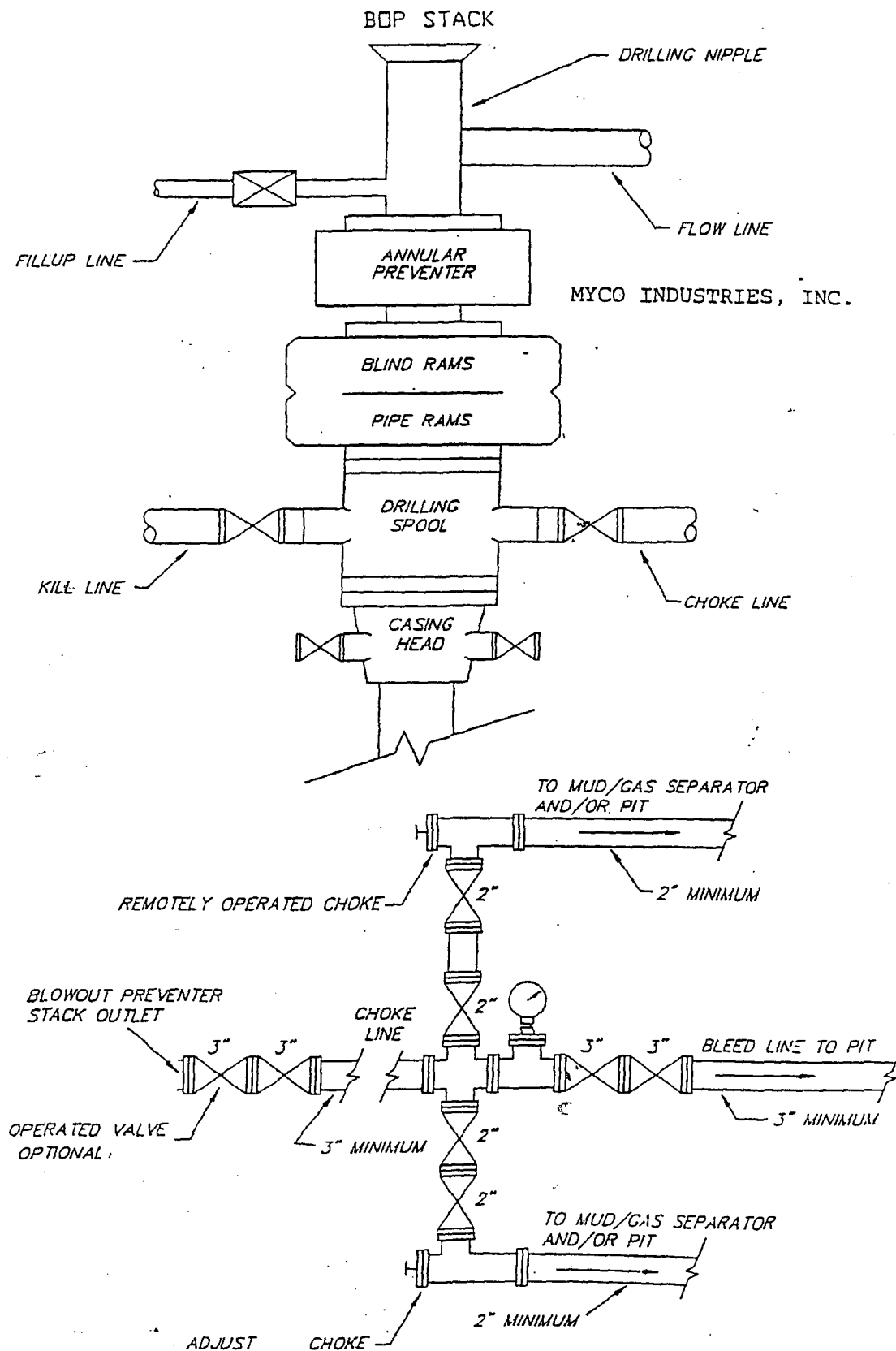
Bottom Hole Location If Different From Surface

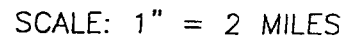
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
320 (W/2)									

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

 <p>SEE DETAIL</p> <p>GEODETIC COORDINATES NME 27 Y=529096.6 X=557222.0</p> <p>DETAIL Scale: 1"=200'</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>A.N. MUNCH</i> Signature A.N. MUNCH Printed Name OPER-ENGR MGR. Title 7/17/2001 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>JUNE 29, 2001</p> <p>Date Surveyed Signature & Seal of Professional Surveyor Professional Surveyor 7/27/01 01-11-0803</p> <p>Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641</p>
---	---

MYCO INDUSTRIES, INC.
 TYPICAL 5,000 p.s.i.
BLOWOUT PREVENTER & CHOKE MANIFOLD SCHEMATIC

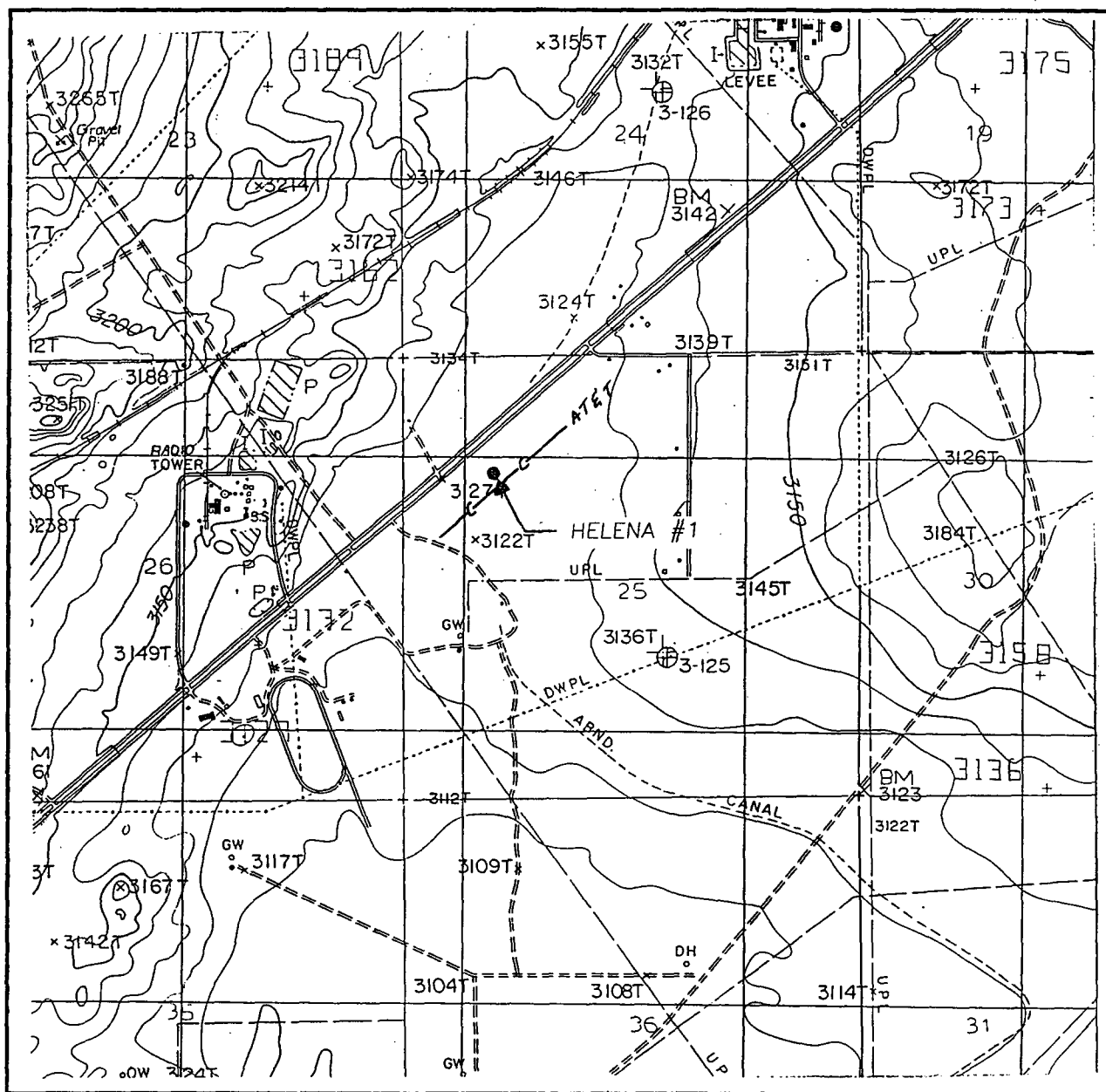




LEASE _____ HELENA

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505 393-3117

LOCATICN VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
CARLSBAD EAST - 10'

SEC. 25 TWP. 21-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1340' FNL & 1040' FWL

ELEVATION 3119

OPERATOR MYCO INDUSTRIES, INC.

LEASE HELENA

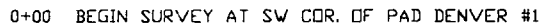
U.S.G.S. TOPOGRAPHIC MAP

CARLSBAD EAST, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505 393-3117)

EDDY COUNTY.

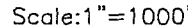
NEW MEXICO.



7+11 E.D.S.

NOTE:

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND
CONFORM TO THE NEW MEXICO COORDINATES SYSTEM
"NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983,
DISTANCES ARE SURFACE VALUE.



I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

RONALD G. EDSON, N.M.
GARY G. EDSON, N.M.

No. 3239

No. 12641

JOHN WESTESS SURVEYING COMPANY

412 N. DAL PASO - ROBBES, NEW MEXICO - 505-393-3117

MYCO INDUSTRIES, INC

A SURVEY OF A PIPELINE CROSSING U.S.A. LAND IN SECTION 25,
TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M, EDDY COUNTY,
NEW MEXICO.

Survey Date: 08/07/01

Sheet 1 of 1 Sheets

W.O. Number: 01.11.0877-4

Drawn By: A..W.BECKLEY

Date:08/08/01

DISK: CD#3

PIPELINE

Scale: 1" = 1000'

Location of compressor with operating characteristics:	N/A
Location of compressor control with operating characteristics:	N/A
Location of safety devices with operating characteristics:	N/A

Name of person to be notified in case of emergency: A. Nelson Muncy, PELS, Oper-Engr Mgr. (505) 365-8840	
Proposed hole size: 17-1/2", 12-1/4", 8-3/4"	Casing Program: 13-3/8" @ 475' 9-5/8" @ 2500' 5-1/2" @ 12,100'
Mud Program: Surface-Fresh Water Inter.-Cutbrine, Long String Gel/Starch	Cementing Program: Circulate 13-3/8" & 9-5/8" 5-1/2" (2-stage) TOC = 8100'
Specifications of safety provisions and equipment for installation of any pipeline with pressures in excess of 250 psi: Pipeline plan will be submitted if well is completed and placed on production	
Have you attached a current certified financial statement? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See attached	

Signature of authorized agent: <u>A. Nelson Muncy, PELS</u>	Date: <u>7/2/01</u>
Typed or Printed name of authorized agent: A. Nelson Muncy, PELS, Oper-Engr. Mgr.	

This application shall be filed with the City Administrator and accompanied by a filing fee of \$500.00 in cash, cashier's check, or certified check made payable to the City of Carlsbad.

☒ Cash, Cashier's Check, Certified Check accompanies application.

Permit: ☒ Approved ☐ Disapproved by Council. Date: July 10, 2001

This Permit incorporates by reference and requires compliance with all applicable City Ordinances and regulations.

[Signature]
City Administrator

Date: 7-11-01

CITY OF CARLSBAD
P O BOX 1569
CARLSBAD NM 88221

APPLICATION FOR PERMIT

A separate application shall be required for each well, trunkline pipeline and each water or gas repressurizing or injection facility.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Drill Well | <input type="checkbox"/> Water/Gas Repressurizing/Injection Facility |
| <input type="checkbox"/> Re-enter/Deepen Existing Well | <input type="checkbox"/> Construct/Operate Gas Pipeline |

Applicant Name: Myco Industries, Inc.		Filing Date: 7/2/01
If not Corporation, name of local attorney as Agent:		
If Corporation, Name of Registered Agent: Frank Yates, Jr.		
Applicant Address: P.O. Box 840	City: Artesia	State/Zip: NM 88210

Proposed site (Including location of gathering lines):
Name of lease owner: Lease dated 1/25/92 from E.C. Wilson, et ux to Champlin Petroleum Co. Book 84, Page 847; Myco Industries, Inc. - Operator
Accurate description of well location (with legal description of all acreage dedicated to well or legal description of easements to be used by pipeline): 1340' FNL and 1040' FWL, Section 25, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico Dedicating a W/2 spacing unit for the Morrow Formation
Location with respect to property lines, right-of-way boundaries, and surface contours: See attached plats
Ground elevation at well site: GR 3119'

Type of derrick: Key Rig #37 (Triple)	Proposed depth: 12,100'
---------------------------------------	-------------------------

Detailed explanation of operating pressures of all pipelines and facilities: See attached description
--

Application continued on reverse side.

Submit 3 copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

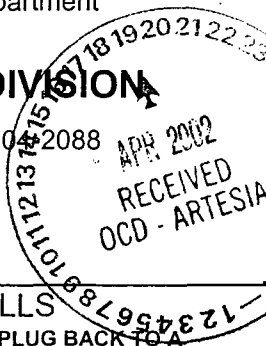
DISTRICT I
PO Box 1980, Hobbs, NM 88240

DISTRICT II
PO Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

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



WELL API NO. 30-015-31909
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELENA 25 FEE COM
8. Well No. 1
9. Pool name or Wildcat UND CARLSBAD MORROW, EAST

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator MYCO INDUSTRIES, INC.
3. Address of Operator P.O. BOX 840, ARTESIA, NM 88211-0840	4. Well Location Unit Letter E : 1340' Feet From The NORTH Line and 1040' Feet From The WEST Line Section 25 Township 21S Range 27E NMPM EDDY County

10. Elevation (show whether DF, RKB, RT, GR, etc.)
3119'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF :	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: NAME CHANGE <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. 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.

4/16/02 NAME CHANGE EFFECTIVE 4/16/02 FROM HELENA #1 TO HELENA 25 FEE COM #1.

CERTIFIED RETURN: 7001 1940 0006 6414 4625

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

SIGNATURE Isabel Lopez TITLE ENG. TECH. DATE 4/16/02
TYPE OR PRINT NAME ISABEL LOPEZ TELEPHONE NO. 746-0246

(This space for State Use)

APPROVED BY Record Only TITLE DATE 4-30-02
CONDITIONS OF APPROVAL, IF ANY:

Submit 3 copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

dp

DISTRICT I
PO Box 1980, Hobbs, NM 88240

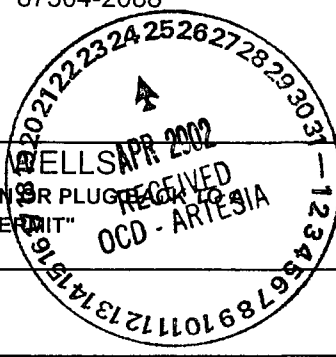
OIL CONSERVATION DIVISION

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

DISTRICT II
PO Drawer DD, Artesia, NM 88210

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

WELL API NO. <u>30-015-31909</u>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELENA 25 FEE COM
8. Well No. 1
9. Pool name or Wildcat



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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator MYCO INDUSTRIES, INC.	
3. Address of Operator P.O. BOX 840, Artesia, NM 88211-0840	
4. Well Location Unit Letter <u>E</u> : <u>1340'</u> Feet From The <u>NORTH</u> Line and <u>1040'</u> Feet From The <u>WEST</u> Line Section <u>25</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>EDDY</u> County	
10. Elevation (show whether DF, RKB, RT, GR, etc.) <u>3119'</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER: <input type="checkbox"/>
SUBSEQUENT REPORT OF:	
REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

12. 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.
4-20/21-02 Set 60' conductor pipe & cement.
4-22-02 MIRU #507 Patterson - UTI and spud. Notified OCD Artesia and City of Carlsbad (John Tulley).
4-23-02 TD 17-1/2" hole @ 450' & ran 10-jts 13-3/8" H-40 (48#). Set 450.1' w/Tx. Ptrn. shoe and insert float. Cement w/400 - sxs "H" thickset (10% A-10, 10% CaCl2, 10# gilsonite per sx, 1/2 # C.F. per sx) + 400-sxs BJ Lite "C" (35-65-6 + 2% CaCl2 + 1/4# F.C./sx) and tail w/200-sxs "C" + 2% CaCl2. Plug down 7:30 pm and circulate 25-sxs to pits. Randy Dutton notified Artesia OCD for cement job. <u>WOC Time</u>

CERTIFIED RETURN: 7001 1940 0006 6414 4632

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

SIGNATURE Isabel Lopez TITLE ENGINEERING TECH. DATE 4/24/02
TYPE OR PRINT NAME Isabel Lopez TELEPHONE NO. (505)746-0246

(This space for State Use)

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

APPROVED BY [Signature] DATE MAY 01 2002
CONDITIONS OF APPROVAL, IF ANY:

DP

DISTRICT I

PO Box 1980, Hobbs, NM 88240

DISTRICT II

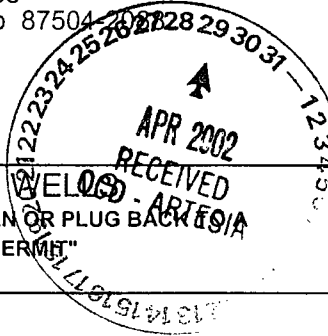
PO Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P. O. Box 2088
Santa Fe, New Mexico 87504



WELL API NO. 30-015-31909
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELENA 25 FEE COM
8. Well No. 1
9. Pool name or Wildcat UND CARLSBAD MORROW, EAST

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

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator MYCO INDUSTRIES, INC.	
3. Address of Operator P.O. BOX 840, ARTESIA, NM 88211-0840	
4. Well Location Unit Letter <u>E</u> : <u>1340'</u> Feet From The <u>NORTH</u> Line and <u>1040'</u> Feet From The <u>WEST</u> Line Section <u>25</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>EDDY</u> County	
10. Elevation (show whether DF, RKB, RT, GR, etc.) 3119'	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER: <u>NAME CHANGE</u> <input checked="" type="checkbox"/>
SUBSEQUENT REPORT OF:	
REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER: <input type="checkbox"/>

12. 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.

4-28/29-02: TD 12-1/4" hole @ 2296'. Ran 52-Jts. 9-5/8" Intermediate Dev. 2-1/4" @ 2265'. TD W/Tx. Pattern shoe on BTM. (Double Float). CMT W/400 - SXS Thickset "H" + 10# LCMI, 1/2# CF, 10% AV 10, 1% CaCl₂ followed W/2,500 SXS. BJ Lite with 5# salt, 1/4# CF 5# LCMI. Tailed in W/200 SXS "C" + 2% CaCl₂. Did not Circ. Cmt. PD @ 12:41 AM 4-28-02. Ran Jarrell Wireline temp. survey and found TOC @ 742'±. Ran 1" to 680' & tagged Cmt. Pumped thru 1" 100-SXS "C" + 4% CaCl₂. WOC 2-hrs and tagged with 1" TOC @ 500'. Pumped 200-SXS "C" W/2% CaCl₂ thru 1" and Circ. 21-SXS to pits. WOC 18-hrs and nipped up and test BOP.

NOTE: Randy Dutton notified Artesia OCD and the City of Carlsbad.

CERTIFIED RETURN: 7001 1940 0006 6414 4649

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

SIGNATURE Isabel Lopez TITLE ENG. TECH. DATE 4/29/02
TYPE OR PRINT NAME ISABEL LOPEZ TELEPHONE NO. 746-0246

(This space for State Use)

**ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR**

APPROVED BY [Signature] DATE MAY 01 2002
CONDITIONS OF APPROVAL, IF ANY:

op

DISTRICT I
PO Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

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

DISTRICT II
PO Drawer DD, Artesia, NM 88210

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

WELL API NO. 30-015-31909
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELENA 25 FEE COM
8. Well No. #1
9. Pool name or Wildcat

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 TO DRILL" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator MYCO INDUSTRIES, INC.	3. Address of Operator P.O. BOX 840 ARTESIA, NM 88211-0840 (505)748-4288
4. Well Location Unit Letter E : 1340' Feet From The NORTH Line and 1040' Feet From The WEST Line Section 25 Township 21S Range 27E NMPM EDDY County	10. Elevation (show whether DF, RKB, RT, GR, etc.)	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF :	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: RUN-CEMENT 4-1/2" TO TD <input checked="" type="checkbox"/>	

12. 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.

6-07-02 DRILLER'S TD = 12,020'. LOGGER'S TD = 12,026'. RAN 4-1/2", P-110 11.6# CSG. TO TD W/FLOAT SHOE & COLLAR (UP 2-JTS). DV TOOL SET @ 9007'.

STAGE I : 1300-SXS 15:61:11 POZ "H" CSE + 5% SALT + 5# LCM-1 + 0.7% FL-52 + 0.7% FL-25.

STAGE II : 4200-SXS 35-65 POZ "C" + 6% GEL + 3% SALT + 0.5% FL-52. TAIL W/100-SXS "H" NEAT. N2 MUD START STAGE II 150-SCF/BBL CIRC. 42-SXS OFF DV ON STAGE I & CIRC. 288-SXS ON STAGE II.

RANDY DUTTON WITH MYCO INDUSTRIES, INC. NOTIFIED ARTESIA OCD AND CITY OF CARLSBAD.

CERTIFIED RETURN: 7001 1940 0006 6414 4915

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

SIGNATURE Isabel Lopez TITLE ENGINEERING TECHNICIAN DATE 6-15-02
TYPE OR PRINT NAME Isabel Lopez TELEPHONE NO. (505)748-4288

(This space for State Use)

APPROVED BY

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

DATE

CONDITIONS OF APPROVAL, IF ANY:

JUN 26 2002

Subm. to Appropriate

District Office

State Lease --6 copies

Fee Lease --5 copies

DISTRICT I

PO Box 1980, Hobbs, NM 88240

DISTRICT II

PO Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410


State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105

Revised 1-1-89

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

WELL API NO. 30-015-31909	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG									
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						7. Lease Name or Unit Agreement Name HELENA 25 FEE COM			
b. Type of Completion: NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF <input type="checkbox"/> WELL OVER BACK RESVR OTHER _____									
2. Name of Operator MYCO INDUSTRIES, INC.						8. Well No. 1			
3. Address of Operator P.O. BOX 840, ARTESIA, NM 88211-0840 505-748-4288						9. Pool name or Wildcat UND CARLSBAD MORROW, EAST			
4. Well Location Unit Letter E : 1340' Feet From The NORTH Line and 1040' Feet From The WEST Line Section 25 Township 21S Range 27E NMPM EDDY County									
10. Date Spudded 4-22-02		11. Date T.D. Reached 6-7-02		12. Date Compl. (Ready to prod.) 9-27-02		13. Elevations (DF. RKB. RT. GR. ETC.) 3119' GR		14. Elev. Casinghead 3121'	
15. Total Depth 12026'		16. Plug, Back T.D. 11915'		17. If Multiple Compl. How Many Zones?		18. Intervals Drilled By		Rotary Tools Cable Tools 0 - 12026'	
19. Producing Interval(s), of this Completion -Top, Bottom, Name 11,466' - 11,582' (MORROW)								20. Was Directional Survey Made TOTCO - ATTACHED	
21. Type Electric and Other Logs Run SCHLUMBERGER PLATFORM - EXPRESS (ATTACHED)								22. Was Well Cored NO	
23. CASING RECORD (Report all strings set in well)									
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD	
13-3/8"		48#		450'		17-1/2"		1000 - SXS (CIRCULATED)	
9-5/8"		36#		2296'		12-1/4"		3400 - SXS (CIRCULATED)	
4-1/2"		17#		12,026'		8-3/4" & 7-7/8"		6500 - SXS (CIRCULATED)	
								2 - STAGES	
24. LINER RECORD									
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN	
25. TUBING RECORD									
SIZE		DEPTH SET		PACKER SET					
2-7/8"		11,376'		11,376'					
26. Perforation Record (Interval, size and number)									
11,466', 52', 84', 85', 86', 91', 92', 94', 11,535', 43', 50', 66', 68', 80', 82' (15 - TOTAL HOLES)) (0.43").									
27. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
DEPTH INTERVAL				AMOUNT AND KIND OF MATERIAL USED					
11,466' - 11,582'				1500 - GAL 7-1/2% + N2					
				31,000# + 14,000 - GAL					
28. PRODUCTION									
Date First Production 9-21-02		Production Method (Flowing, gas lift, pumping-size and type of pump) FLOWING					Well Status (Prod. or shut-in) PRODUCING		
Date of Test 9-27-02	Hours Tested 6	Choke Size 0.50"	Prod'n For Test Period	Oil - BBL. 0	Gas - MCF 40.25	Water - BBL. 0	Gas-Oil Ratio 0		
Flow Tubing Press. 888	Casing Pressure 0	Calculated 24-Hour Rate	Oil - BBL. 0	Gas - MCF 161	Water - BBL. 0	Oil Gravity - AP ₅ (Corr.) 0			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD						Test Witnessed By RANDY DUTTON			
30. List of Attachments E-LOGS, TOTCO, C-122 & CBL									
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief									
Signature 			Printed Name Isabel Lopez		Title ENGR. TECH.		Date 10-4-02		

DISTRICT I
PO Box 1980, Hobbs, NM 88240

DISTRICT II
PO Drawer DD, Artesia, NM 88210

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

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

WELL API NO. 30-015-31909
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELENA 25 FEE COM
8. Well No. #1
9. Pool name or Wildcat

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator MYCO INDUSTRIES, INC.	8. Well No. #1
3. Address of Operator P.O. BOX 840 ARTESIA, NM 88211-0840 (505)748-4288	9. Pool name or Wildcat	
4. Well Location Unit Letter <u>E</u> : <u>1340'</u> Feet From The <u>NORTH</u> Line and <u>1040'</u> Feet From The <u>WEST</u> Line Section <u>25</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>EDDY</u> County		
10. Elevation (show whether DF, RKB, RT, GR, etc.)		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF :	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <u>PERFS, ACIDIZE AND FRAC MORROW "B"</u> <input checked="" type="checkbox"/>	

12. 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.

6-28/7-17-02 PERF 11,446', 52', 84', 85', 86', 91', 92', 94', 11,535', 43', 50', 66', 68', 80' AND 82' WITH 15-.43" holes.
ACIDIZED WITH 1500-GALS 7-1/2% HCL WITH 1000 SCF N2/BBL.
FRAC (VIA 4-1/2" CASING) WITH 31,500# + 14,000-GAL.

WELL SIWOPLC

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

SIGNATURE Isabel Lopez TITLE ENGINEERING TECHNICIAN DATE 8/23/02
TYPE OR PRINT NAME Isabel Lopez TELEPHONE (505)748-4288

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

DISTRICT I
PO Box 1980, Hobbs, NM 88240
DISTRICT II
PO Drawer DD, Artesia, NM
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised February 10 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

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

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address MYCO INDUSTRIES, INC. P.O. BOX 840 ARTESIA, NM 88211-0840		2 OGRID Number 015445
		3 Reason for Filing Code NW
4 API Number 30 - 015-31909	5 Pool Name UND CARLSBAD MORROW, EAST	6 Pool Code 73920
7 Property Code 28508	8 Property Name HELENA 25 FEE COM	9 Well Number 1

II. 10 Surface Location

UI or lot no. E	Section 25	Township 21S	Range 27E	Lot Idn	Feet from the 1340'	North/South Line NORTH	Feet from the 1040'	East/West Line WEST	County EDDY
--------------------	---------------	-----------------	--------------	---------	------------------------	---------------------------	------------------------	------------------------	----------------

11 Bottom Hole Location

UI or lot no. E	Section 25	Township 21S	Range 27E	Lot Idn	Feet from the 1340'	North/South Line NORTH	Feet from the 1040'	East/West Line WEST	County EDDY
--------------------	---------------	-----------------	--------------	---------	------------------------	---------------------------	------------------------	------------------------	----------------

12 Lee Code P	13 Producing Method Code FLOWING	14 Gas Connection Date 9-21-02	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date
------------------	-------------------------------------	-----------------------------------	------------------------	-------------------------	--------------------------

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and Description
138648	AMOCO PRODUCTION COMPANY 502 NORTHWEST AVE. LEVELLAND, TX 79336	2833242	O	UNIT E SEC. 25-T21S-R27E 1340' FNL & 1040' FWL EDDY CO, NM NMPM
036785	DUKE ENERGY P.O. BOX 50020 MIDLAND, TX 79710-0020	2833243	G	UNIT C SEC. 31-T21S-R28E 660' FNL & 1400' FEL EDDY CO, NM NMPM

IV. Produced Water

23 POD 2833244	24 POD ULSTR Location and Description UNIT E SEC. 25-T21S-R27E
-------------------	---

V. Well Completion Data

25 Spud Date 4-22-02	26 Ready Date 9-27-02	27 TD 12021'	28 PBTD 11915'	29 Perforations 11,466' - 11,582'
30 Hole Size 17-1/2"	31 Casing & Tubing Size 13-3/8"	32 Depth Set 450'	33 Sacks Cement 1000 - SXS (CIRCULATED)	
12-1/4"	9-5/8"	2296'	3400 - SXS (CIRCULATED)	
8-3/4" & 7-7/8"	4-1/2"	12,026'	6500 - SXS (CIRCULATED)	
				2 - STAGES

VI. Well Test Data

34 Date New Oil 9-21-02	35 Gas Delivery Date 9-21-02	36 Test Date 9-27-02	37 Test Length 24-HR	38 Tbg. Pressure 888#	39 Csg. Pressure 0
40 Choke Size 0.50"	41 Oil 0	42 Water 0	43 Gas 161- MCF	44 AOF 161	45 Test Method F

46 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 
Printed Name: Isabel Lopez

Title: Engineering Technician

Date: 10/4/02 Phone: (505)748-4288

Approved by:

Title:

Approval Date:

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

OCT 22 2002

47 If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

OPERATOR: MYCO INDUSTRIES
WELL/LEASE: HELENA 25 FEE COM. 1
COUNTY: EDDY

507-0078

STATE OF NEW MEXICO
DEVIATION REPORT

105	3/4	8,291	1 1/2
190	1/4	8,472	2 3/4
283	1/4	8,567	3
446	1 1/4	8,660	3 1/2
756	1/4	8,723	3
1,044	1/2	8,786	3 1/4
1,325	1/2	8,847	2 3/4
1,630	1	8,941	2 3/4
1,944	2 1/2	9,050	2 1/4
2,013	3	9,192	2
2,050	3	9,412	1 3/4
2,107	2 3/4	9,694	1
2,164	2 1/2	10,170	1/4
2,226	2 1/4	11,040	1 1/4
2,265	2 1/4	11,450	1 1/2
2,429	2	12,020	1 1/2
2,618	1		
2,992	1/4		
3,482	1/2		
3,968	1		
4,468	3/4		
4,966	1/2		
5,441	1 1/2		
5,583	1		
6,068	1 1/2		
6,539	1 3/4		
7,026	1 1/2		
7,526	2		
8,009	2 3/4		
8,100	2		
8,195	1 3/4		

By: Steve Moore

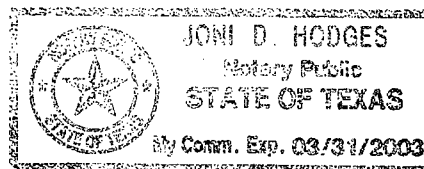
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 10th day of June, 2002, by Steve Moore on behalf of Patterson-UTi Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

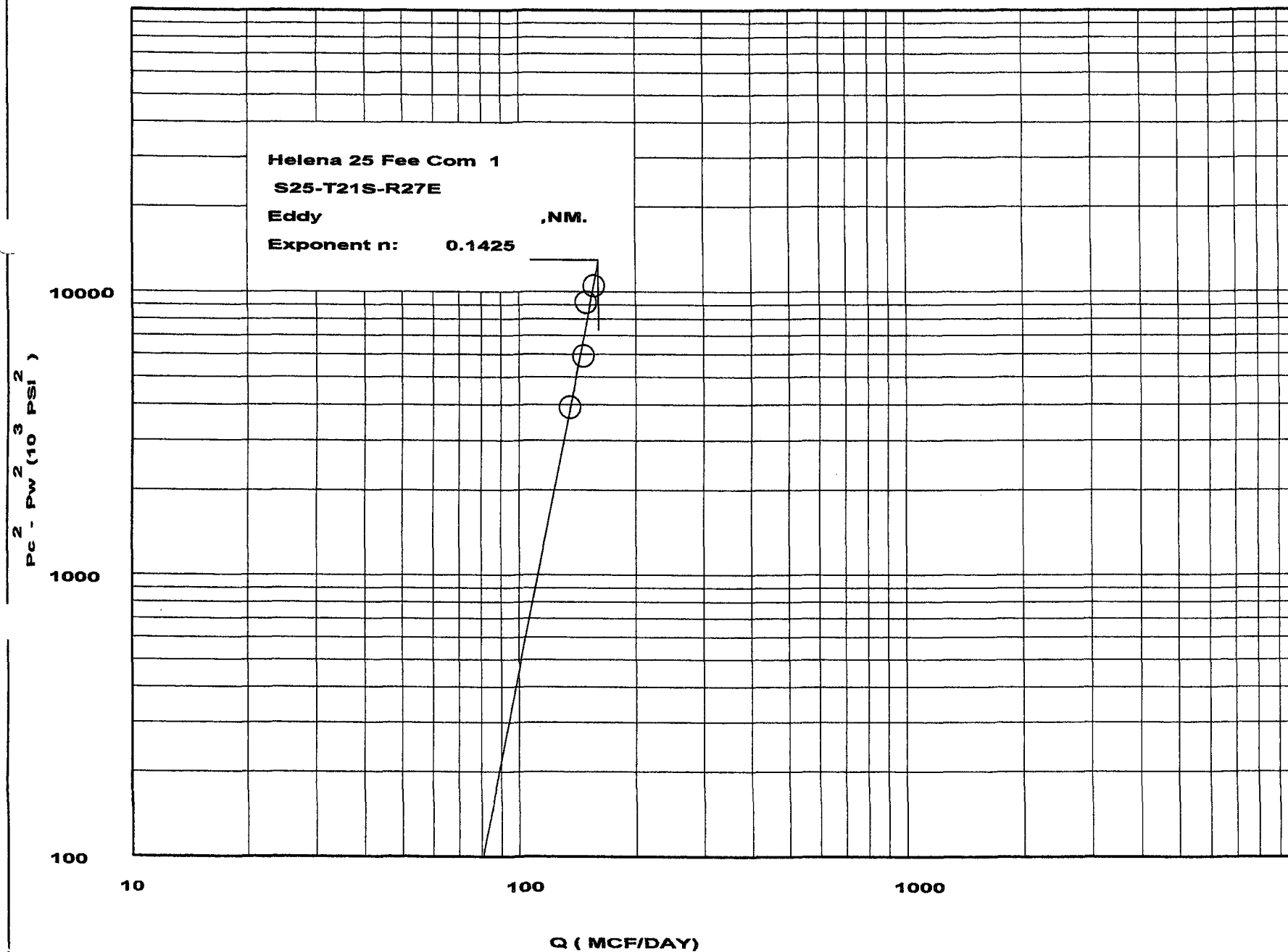


MYCO INDUSTRIES, INC.

WELL TESTER: A N Muncy

GAS WELL BACK PRESSURE CURVE

TEST DATE: 09/24/2002



Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MYCO INDUSTRIES, INC.					Lease or Unit Name Helena 25 Fee Com				
Test Type <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 09/24/2002		Well No. 1		
Completion Date 09/27/2002		Total Depth 12026		Plug Back TD 11,915' KB		Elevation 3119' GL		Unit Ltr - Sec - TWP - Rge. S25-T21S-R27E	
Csg. Size 5.500	Wt. 17.000	d 4.860	Set At 12026	Perforation: From 11446 To 11482				County Eddy	
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 11376	Perforation: From To				Pool Carlsbad Morrow	
Type Well-Single-Bradenhead-G.G. o.G.O. Multiple Initial					Packer Set At 11,376' KB		Formation Morrow		
Producing Thru Tubing		Reservoir Temp.F 195 F		Mean Annual Temp.F 98		Baro. Pressure		Connection MYCO Capitol	
L 11915	H 11915	Gg .804	% CO ₂ .34	% N ₂ 1.06	% H ₂ S	Prover Prover		Meter Run 4"	Taps Pipe

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
No.	(Prover) Line Size x Orifice Size	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure					3605	74			144
1.	4.00 x .50	1050.00	6.80	66	3012	74			2
2.	4.00 x .50	987.00	8.80	68	2657	75			2
3.	4.00 x .50	925.00	9.90	67	1956	78			2
4.	4.00 x .50	888.00	11.70	70	1578	77			2

RATE OF FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. FACTOR F _t	Gravity FACTOR F _g	Super Compress. FACTOR F _{pv}	Rate of Flow (Q) MCFD
1.	1.213	84.499	1050.0	.9943	1.1152	1.1935	135.6
2.	1.213	93.197	987.0	.9924	1.1152	1.1750	147.0
3.	1.213	95.695	925.0	.9933	1.1152	1.1626	149.5
4.	1.213	101.929	888.0	.9905	1.1152	1.1499	157.1

No.	P _r	TEMP.	T _r	Z
1.	1.587	526	1.258	.7021
2.	1.491	528	1.263	.7243
3.	1.398	527	1.260	.7399
4.	1.342	530	1.267	.7563

Gas-Liquid Hydrocarbon Ratio				Mcf/bbl
API Gravity of Liquid Hydrocarbons				Deg.
Specific Gravity Separator Gas .804				
Specific Gravity Flowing Fluid				.804
Critical Pressure	661	PSIA	661	PSIA
Critical Temperature	418	R	418	R

$$P_C = 3605.0 \quad P_C^2 = 12996.0$$

No.	P _w	P _w ²	P _C ² - P _w ²
1.	3012.1	9072	3923.354
2.	2657.1	7060	5935.805
3.	1956.1	3826	9169.532
4.	1578.2	2490	*****

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = \frac{1.237}{\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n} = \frac{1.031}{\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n} = \frac{161}{\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n}$$

$$AOF = Q$$

Absolute Open Flow 161		Mcf/d @ 15.025		Angle of Slope - 81.9		Slope, n .142	
Remarks							
Approved By Division:		Conducted By: A N Muncy		Calculated By: BPT System		Checked By: ANM	

District I

P O Box 1980, Hobbs, NM 88241-1980

District II

811 South 1st, Artesia, NM 88210

District III

1000 Rio Brazos, Aztec, NM 874710

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
SANTA FE, NM 87504
OPERATOR'S MONTHLY REPORT

Form C-115 First Page

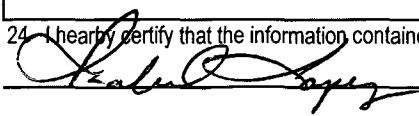
Revised May 18, 1995

Instructions on Reverse Side

☐ **Amended Report**

2 Operator: MYCO INDUSTRIES, INC.										3 OGRID: 015445					4 Month/Year Jan-03			
5 Address: P O BOX 840 ARTESIA, NM 88211-0840										6 Page 1 of								
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS AND WATER									
		8 C O D E 1	9 Volume	10 Pressure	11 C O D E 2	12 Barrels of oil/ condensate produced	13 Barrels of water produced	14 Gas produced (MCF)	15 Days produced	16 C O D E 3	17 Point of Disposition	18 Gas BTU or Oil API Gravity	19 Oil on hand at beginning of month	20 Volume (Bbls/mcf)	21 Trans- porter OGRID	22 C O D E 4	23 Oil on hand at end of month	
Sep-02																		
28508 HELENA 25 FEE COM																		
001 E-25-21S-27E																		
30-015-31909		F				0	8	701	10	O G W	2833242 2833243 2833244	741	0	701 8	036785	O	0	
Oct-02																		
28508 HELENA 25 FEE COM																		
001 E-25-21S-27E																		
30-015-31909		F				0	267	1844	31	O G W	2833242 2833243 2833244	987	0	1844 267	036785	O	0	
Nov-02																		
28508 HELENA 25 FEE COM																		
001 E-25-21S-27E																		
30-015-31909		F				0	160	1821	30	O G W	2833242 2833243 2833244	987	0	1821 160	036785	O	0	
Dec-02																		
28508 HELENA 25 FEE COM																		
001 E-25-21S-27E																		
30-015-31909		F				0	10	163	4	O G W	2833242 2833243 2833244	987	0	163 10	036785	O	0	
Jan-03																		
28508 HELENA 25 FEE COM																		
001 E-25-21S-27E																		
30-015-31909		F				0	14	445	8	O G W	2833242 2833243 2833244	1148	0	445 14	036785	O	0	

24. I hereby certify that the information contained in this report is true and complete to the best of my knowledge.



Isabel Lopez

Engineering Technician

3/11/03

(505)748-1471

HELENA 25 FEE #1 CUMULATIVE PRODUCTION REPORT						
Prepared by: Isabel Lopez (8.22.2002) Production and Sales Thru 1.31.03						
WELL SUMMARY	# OF DAYS PRODUCED	BBLS OIL	MCF GAS	BBLS WATER		
2002 Totals	75	0	4529	445		
2003 Totals YTD	8	0	445	14		
WELL TOTALS	83	0	4974	459		
2002 PRODUCTION MONTH	# OF DAYS PRODUCED	BBLS OIL	MCF GAS	MCF BTU	BBLS WATER	NOTES
Aug.-02	0	0	0	0	0	
Sept.-02	10	0	701	741	8	
Oct.-02	31	0	1844	987	267	
Nov.-02	30	0	1821	987	160	
Dec.-02	4	0	163	987	10	12 days workover/14 days SI for evaluation.
WELL TOTALS	75	0	4529		445	
2003 PRODUCTION MONTH	# OF DAYS PRODUCED	BBLS OIL	MCF GAS	MCF BTU	BBLS WATER	NOTES
Jan.-03	8	0	445	1148	14	SI 23 days acidizing, perfing and evaluating.
TOTAL	8	0	445		14	Opened 1.25.03 produced 512 MCF's from Strawn "A" and "B".

Morrow "B"

STRAWN

60 ÷ 92 = 65% "B" Morrow
+ 32 ÷ 92 = 35% STRAWN
100%
ANN

$$\frac{4529}{75} = 60 \text{ MCFD AVG. RATE Morrow "B"}$$

$$\frac{445}{14} = 32 \text{ MCFD AVG. RATE STRAWN}$$

HELENA 25 FEE COM #1/ Well Report

Operator: MYCO Industries, Inc., P.O. Box 840, Artesia, NM 88211

Location: T21S, R27E, Section 25: 1340' FNL & 1040' FWL

Eddy County, New Mexico

API#: 30-015-31909

Phone #: 505.748.4288

Contact: Isabel Lopez

Date	DAYS PRODUCED	BO PRODUCED	BW	MCF PRODUCED	COMMENTS
Sep-02	10	0	8	512	Started producing 9-23-02.
Oct-02	31	0	267	1919	
Nov-02	30	0	160	1887	12 days Workover and 14 days shut in for evaluation. Shut in 5 days for acidizing and perfin 18 days for evaluation.
Dec-02	4	0	10	206	
Jan.03	8	0	14	555	
TOTAL	83	0	459	5079	Started producing from Strawn "A" and "B" 1.25.03. 512-MCF'S.