



6825 South 5300 West
P.O. Box 851
Price, UT 84501
phone 435.613.9777
fax 435.613.9782

August 11, 2003

Ms. Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
SLC, Utah 84114-5801

RE: Application for Permit to Drill-
Utah 05-224d – Directional Drill Hole
T15S, R09E, SLB & M, Carbon County, Utah

Dear Ms. Mason:

Please replace the existing APD on file with the attached revised *Application for Permit to Drill* (APD) dated 8/11/03. Included with the APD is the following information:

- Exhibit "A" - Survey Plat of the Proposed Well Site;
- Exhibit "B" - Proposed Location Map with Pipeline, Power, and Road Access;
- Exhibit "C" - Drilling Site Layout;
- Exhibit "D" - Drilling Information
- Exhibit "E" - Multipoint Surface Use Plan
- Exhibit "F" - Typical Road Cross-section;
- Exhibit "G" - BOP Diagram;
- Exhibit "H" - Typical Wellhead Manifold;
- Exhibit "I" - Evidence of Bond;

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AUG 21 2003

DIV. OF OIL, GAS & MINING

Utah 5-224d

Page Two

The proposed well is located inside the Drunkards Wash Federal Unit and will be a directional drill hole due to topographical constraints in this area. The surface location will be located in Section 08, NE/4 NW/4, 1174' FNL and 1381' FWL. The target location (bottom hole location) will be 1320' FSL and 1381' FWL in the SW/4 of Section 5, T15S, R09E. ConocoPhillips Company is the "owner" of all leases within 460' from all points along the intended well bore. This proposed well surface location is more than 460' from the boundary of the Unit Area and from the boundary of any uncommitted tract within the Unit Area and will not require the administrative approval in accordance with Utah Administrative Code Rule R649-3-3.

Please accept this letter as ConocoPhillips Company's written request for confidential treatment of all information contained in and pertaining to this permit application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact me if you have any questions.

Sincerely,



Jean Semborski
Permitting Supervisor

cc: Mr. Eric Jones, BLM, Moab, Utah
Mr. Gene Herrington, Texaco
Mr. John Lennon, Dominion Resources
Mr. Don Stephens, BLM, Price, Utah
Ms. Jane Strickland, ConocoPhillips Company
Mr. Mark Jones, DOGM, Price, Utah
Ms. Deanna Walker, COPC, Denver CO
Mr. Edward Bonner, SITLA
COPC Well File

002

From: Ed Bonner
To: Mason, Diana
Date: 7/10/03 11:53AM
Subject: Well Clearances

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

EOG Resources

Horse Point 1-34

Horse Point 4-32

Royale Energy

Moon Canyon 32-1

ConocoPhillips

Utah 05-224d

Utah 03-647

Utah 03-648

Utah 10-649

If you have any questions please give me a call.

CC: Baza, John; Garrison, LaVonne; Hill, Brad; Hunt, Gil

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT
(highlight changes)

001

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML-48205	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
2. NAME OF OPERATOR: ConocoPhillips Company		8. UNIT or CA AGREEMENT NAME: Drunkards Wash UTU-67921X	
3. ADDRESS OF OPERATOR: 6825 S. 5300 W. CITY Price STATE UT ZIP 84501		PHONE NUMBER: (435) 613-9777	9. WELL NAME and NUMBER: Utah 05-224d
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: Surface: Section 8, NE/NW, 1174' FNL, 1381' FWL, T15S, R9E SLB&M AT PROPOSED PRODUCING ZONE: BHL: Section 5, SW/4, 1320' FSL, 1381' FWL, T15S, R9E 4377157Y 504961X 39.54595 710.94226		10. FIELD AND POOL, OR WILDCAT: Drunkards Wash	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 8.1 miles southwest of Price, Utah		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEC. 8 NE/NW 15/9 SEC. 5 SW/4 15/9	12. COUNTY: Carbon
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) N/A		16. NUMBER OF ACRES IN LEASE: 1548.24 acre	13. STATE: UTAH
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 300' (surface location)		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 160 acres	20. BOND DESCRIPTION: Rotary
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6506' GR		19. PROPOSED DEPTH: TVD 3,500' MD 4,492	23. ESTIMATED DURATION: 30 days
22. APPROXIMATE DATE WORK WILL START: 9/20/2003		24. APPROXIMATE DATE WORK WILL START: 9/20/2003	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
14"	12 3/4" or	40	
11"	8 5/8"	500	225 sks G+2&CaCl +1/4#/sk flocel
7 7/8"	5 1/2"	4,492	86 sks 50/50poz 8%gel+2%c +1%extend
			177 sks "G" thixotropic

COPY

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

CONFIDENTIAL

NAME (PLEASE PRINT) Jean Semborski TITLE Permitting Supervisor
SIGNATURE Jean Semborski DATE 8/11/2003

(This space for State use only)

API NUMBER ASSIGNED: 43-007-30896

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: 08-26-03
By: [Signature]

**RECEIVED
AUG 21 2003**

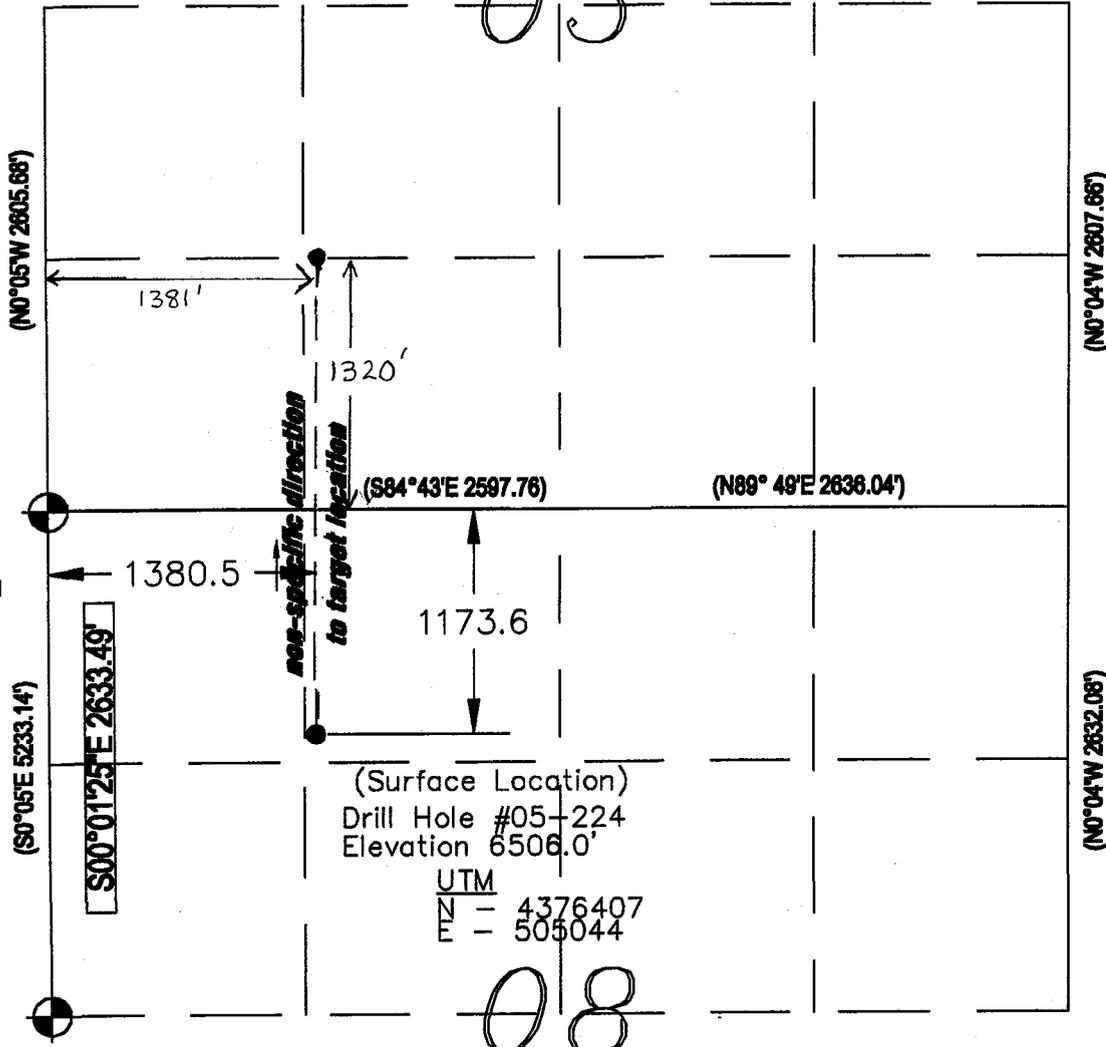
DIV. OF OIL, GAS & MINING

Range 9 East

05

08

Township 15 South



(Surface Location)
Drill Hole #05-224
Elevation 6506.0'

UTM
TZ - 4376407
E - 505044

Location:
THE WELL LOCATION WAS DETERMINED USING A TRIMBLE 4700 GPS SURVEY GRADE UNIT.

Basis of Bearing:
THE BASIS OF BEARING IS GPS MEASURED.

GLO Bearing:
THE BEARINGS INDICATED ARE PER THE RECORDED PLAT OBTAINED FROM THE U.S. LAND OFFICE.

Basis of Elevation:
BASIS OF ELEVATION OF 6362' BEING AT THE SOUTHWEST SECTION CORNER OF SECTION 8, TOWNSHIP 15 SOUTH, RANGE 9 EAST, SALT LAKE BASE AND MERIDIAN, AS SHOWN ON THE PINNACLE PEAK QUADRANGLE 7.5 MINUTE QUAD SERIES MAP.

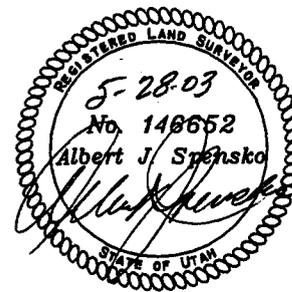
Description of Location:

(TARGET LOCATION)
NON-SPECIFIC
HORIZONTAL TO SOUTHWEST 1/4 OF SECTION 05
T15S, R9E, CARBON COUNTY, S.L.B.&M.

(SURFACE LOCATION)
PROPOSED DRILL HOLE LOCATED IN THE NE1/4, NW1/4 OF SECTION 08, T15S, R9E, S.L.B.&M., BEING 1173.6' SOUTH AND 1380.5' EAST FROM THE NORTHWEST CORNER OF SECTION 08, T15S, R9E, SALT LAKE BASE & MERIDIAN.

Surveyor's Certificate:

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



Legend

- Drill Hole Location
- ⊙ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Rock Pile
- () GLO
- GPS Measured

NOTES:

I. UTM AND LATITUDE / LONGITUDE COORDINATES ARE DERIVED USING A GPS PATHFINDER AND ARE SHOWN IN NAD 27 DATUM.

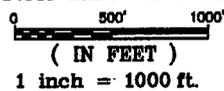
(SURFACE LOCATION)

LAT / LONG
39°32'21"N
110°56'29"W

(TARGET LOCATION)

LAT / LONG:
NON-SPECIFIC

GRAPHIC SCALE





Talon Resources, Inc.
P.O. Box 1230 195 N 100 W
Huntington, Utah 84326
Ph: 435-687-5310
Fax: 435-687-5311

ConocoPhillips Company

Well # 05-224d
Section 05, T15S, R9E, S.L.B.&M.
Carbon County, Utah

Drawn by BEN SCOTT	Checked by L.W.J./A.J.S.
Drawing No. A-1	Date 04/29/03
Sheet 1 of 4	
Scale 1" = 1000'	

EXHIBIT "D"
DRILLING PROGRAM

Attached to Form 3
ConocoPhillips Company
Utah 05-224d
Surface: NE/4, NW/4, Sec.08, T15S, R09E, SLB & M
1174' FNL, 1381' FWL
BHL: SW/4, Sec. 05, T15S, R09E, SLB&M
1320' FSL, 1381' FWL
Carbon County, Utah

1. The Surface Geologic Formation

Mancos Shale

2. Estimated Tops of Important Geologic Markers

Ferron - 3490' MD

3. Projected Gas & H2O zones (Ferron Formation)

Coals and sandstones- 3530' - 3730' MD

No groundwater is expected to be encountered.

Casing & cementing will be done to protect potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits. All indications of usable water will be reported.

Surface casing will be tested to 1400 psi.

4. The Proposed Casing and Cementing Programs

<u>HOLE SIZE</u>	<u>SETTING DEPTH (INTERVAL)</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW, USED</u>
14"	40'	12-3/4"	Conductor	New
11"	500'	8-5/8"	24#ST&C	New
7-7/8"	4492'	5-1/2"	17#LT&C	New

Cement Program -

Surface Casing:

225 sks G+2%CaCl+1/4#per sack flocel;15.8#/gal,density, 1.15 cu.ft/sk yield. Every attempt will be made to bring cement back to surface.

Production Casing:

86 sks 50/50 poz 8%gel +2%CaCl+10%extender;12.5#/gal, density, 1.92 cu.ft/sk yield.
177 sks "G" thixotropic, 14.2#/gal density, 1.61 cu.ft/sk yield

The following shall be entered in the driller's log:

- 1) Blowout preventer pressure tests, including test pressures and results;
- 2) Blowout preventer tests for proper functioning;
- 3) Blowout prevention drills conducted;
- 4) Casing run, including size, grade, weight, and depth set;
- 5) How the pipe was cemented, including amount of cement, type, whether cement circulated, location of the cementing tools, etc.;
- 6) Waiting on cement time for each casing string;
- 7) Casing pressure tests after cementing, including test pressures and results.

5. The Operator's Minimum Specifications for Pressure Control

Exhibit "G" is a schematic diagram of the blowout preventer equipment. A double gate 3000 psi BOPE will be used with a rotating head. This equipment will be tested to 2000 psi. All tests will be recorded in a Driller's Report Book. Physical operation of BOP's will be checked on each trip.

6. The Type and Characteristics of the Proposed Circulating Muds

0-300	11" hole	Drill with air, will mud-up if necessary.
300-TD	7 7/8" hole	Drill with air. 400 psi @ 1500-1800 Scf.

7. The Testing, Logging and Coring Programs are as followed

300-TD Gamma Ray, Density, Neutron Porosity, Induction, Caliper

Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 1771 psi max. No hydrogen sulfide or other hazardous gases or fluids have been found, reported or are known to exist at these depths in the area.

8. Anticipated Starting Date and Duration of the Operations.

The well will be drilled around August 2003.

Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

- (a) prior to beginning construction;
- (b) prior to spudding;
- (c) prior to running any casing or BOP tests;
- (d) prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall be reported to the Division of Oil, Gas & Mining immediately.

EXHIBIT "E"
MULTIPOINT SURFACE USE PLAN

Attached to Form 3
ConocoPhillips Company
Utah 05-224d
Surface : NE/4, NW/4, Sec.08, T15S, R09E, SLB & M
1174' FNL, 1381' FWL
BHL: SW/4 Sec. 05, T15S, R09E, SLB&M
1320' FSL, 1381' FWL
Carbon County, Utah

1. Existing Roads

- a. We do not plan to change, alter or improve upon any existing state or county roads.
- b. Existing roads will be maintained in the same or better condition. See Exhibit "B".

2. Planned Access

Approximately 200' of new access is required (See Exhibit "B")

- a. Maximum Width: 24' travel surface with 27' base
- b. Maximum grade: 6%
- c. Turnouts: None
- d. Drainage design: 3 culverts may be required. Water will be diverted around well pad as necessary.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.
- f. Pipe and Power lines will follow the proposed access road.

3. Location of Existing Wells

- a. See Exhibit "B". There are 0 proposed and 9 existing wells within a one-mile radius of the proposed location.

4. Location of Existing and/or Proposed Facilities

- a. If the well is a producer, installation of production facilities will be as shown on Exhibit "H". Buried powerlines run along access on the east and north, gathering lines on the south or west.

- b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

5. Location and Type of Water Supply

- a. Water to be used for drilling will be purchased from the Price River Water Improvement District (a local source of municipal water) (tel. 435-637-6350).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

6. Source of Construction Materials

- a. Any necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

7. Methods for handling waste disposal

- a. As the well will be air drilled, a small reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit will not be lined unless conditions encountered during construction warrant it or if deemed necessary by the DOGM representative during the pre-site inspection. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit back-filled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.
- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. Ancillary Facilities

- a. We anticipate no need for ancillary facilities with the exception of one trailer to be located on the drill site.

9. Wellsite Layout

- a. Available topsoil will be removed from the location and stockpiled. Location of mud tanks, reserve and berm pits, and soil stockpiles will be located as shown on the attachments.
- b. A blooie pit will be located 100' from the drill hole. A line will be placed on the surface from the center hole to the pit. The pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Exhibit "B".
- d. Natural runoff will be diverted around the well pad.

10. Plans for Restoration of Surface

- a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.

11. Surface Ownership:

- a. The wellsite and access road will be constructed on lands owned by the School and Institutional Trust Lands Administration. The operator shall contact the landowner representative and the Division of Oil, Gas and mining 48 hours prior to beginning construction activities.

12. **Other Information:**

- a. The primary surface use is farming and grazing. The nearest dwelling is approximately 16,000 feet southeast.
- b. Nearest live water is North Spring located at 4500' southwest.
- c. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed and piled downhill from the topsoil stockpile location.
- d. The backslope and foreslope will be constructed no steeper than 4:1.
- e. All equipment and vehicles will be confined to the access road and well pad.
- f. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be on the wellsite during construction and drilling operations

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas & Mining.

13. Company Representative

Jean Semborski
Permitting Supervisor
ConocoPhillips
6825 S. 5300 W. P.O. Box 851
Price, Utah 84501
(435) 613-9777
(435) 820-9807

Mail Approved A.P.D. To:

Company Representative

Excavation Contractor

Larry Jensen, Vice President
Nelco Contractors Inc.
Vice President
(435) 637-3495
(435) 636-5268

14. Certification

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by ConocoPhillips and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

8/11/03
Date


Jean Semborski
Permitting Supervisor
ConocoPhillips

200' REFERENCE NAIL

Elevation of Ungraded Ground at Location Stake = 6506.0'
Elevation of Graded Ground at Location Stake = 6503'

150' REFERENCE NAIL

50'

CUT 12.44'

CUT 10.2'

CUT 15.34'

100'x50'x10'
Pit

150'

175'

Well# 05-224d
Elev. 6506.0'
Cut 3.0'

150'

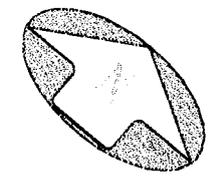
165'

1% Slope

FILL 3.34'

FILL 13.63'

FILL 12.45'



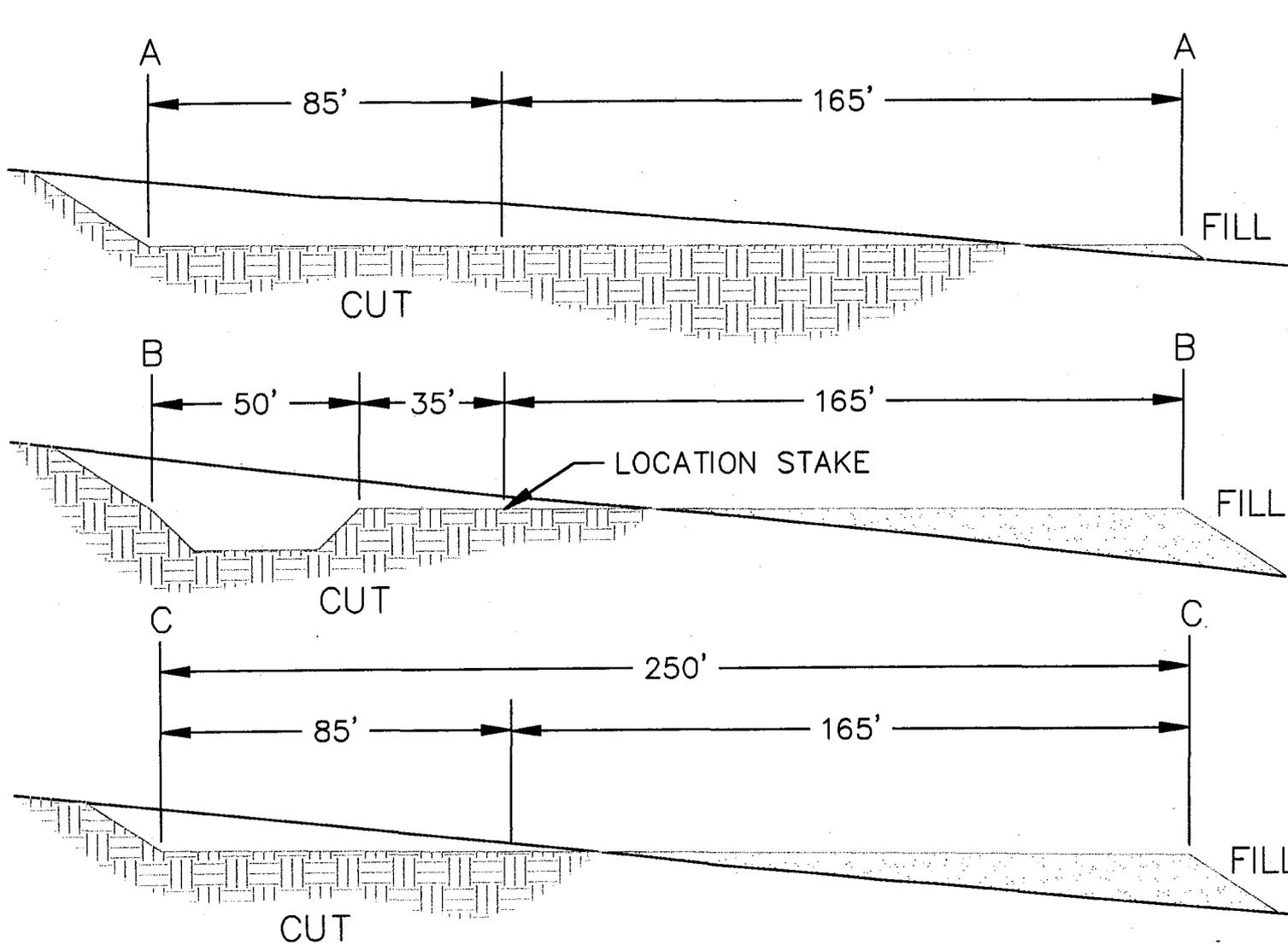
TALON RESOURCES, INC.

195 North 100 West P.O. Box 1230
Huntington, Utah 84528
Phone (435)687-5310 Fax (435)687-5311
E-Mail talon@tv.net

ConocoPhillips Company

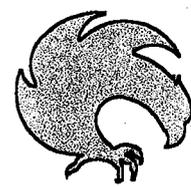
LOCATION LAYOUT
Section 5, T15S, R9E, S.L.B.&M.
WELL #05-224

Drawn By: BEN SCOTT	Checked By: L.W.J.
Drawing No. A-2	Date: 05/02/03
	Scale: 1" = 50'
Sheet 2 of 4	Job No. 1066



1" = 10'
 X-Section Scale
 1" = 10'

Slope = 1 1/2 : 1
 (Except Pit)
 Pit Slope = 1 ; 1



TALON RESOURCES, INC.
 195 North 100 West P.O. Box 1230
 Huntington, Utah 84528
 Phone (435)687-5310 Fax (435)687-5311
 E-Mail talonres@netv.net

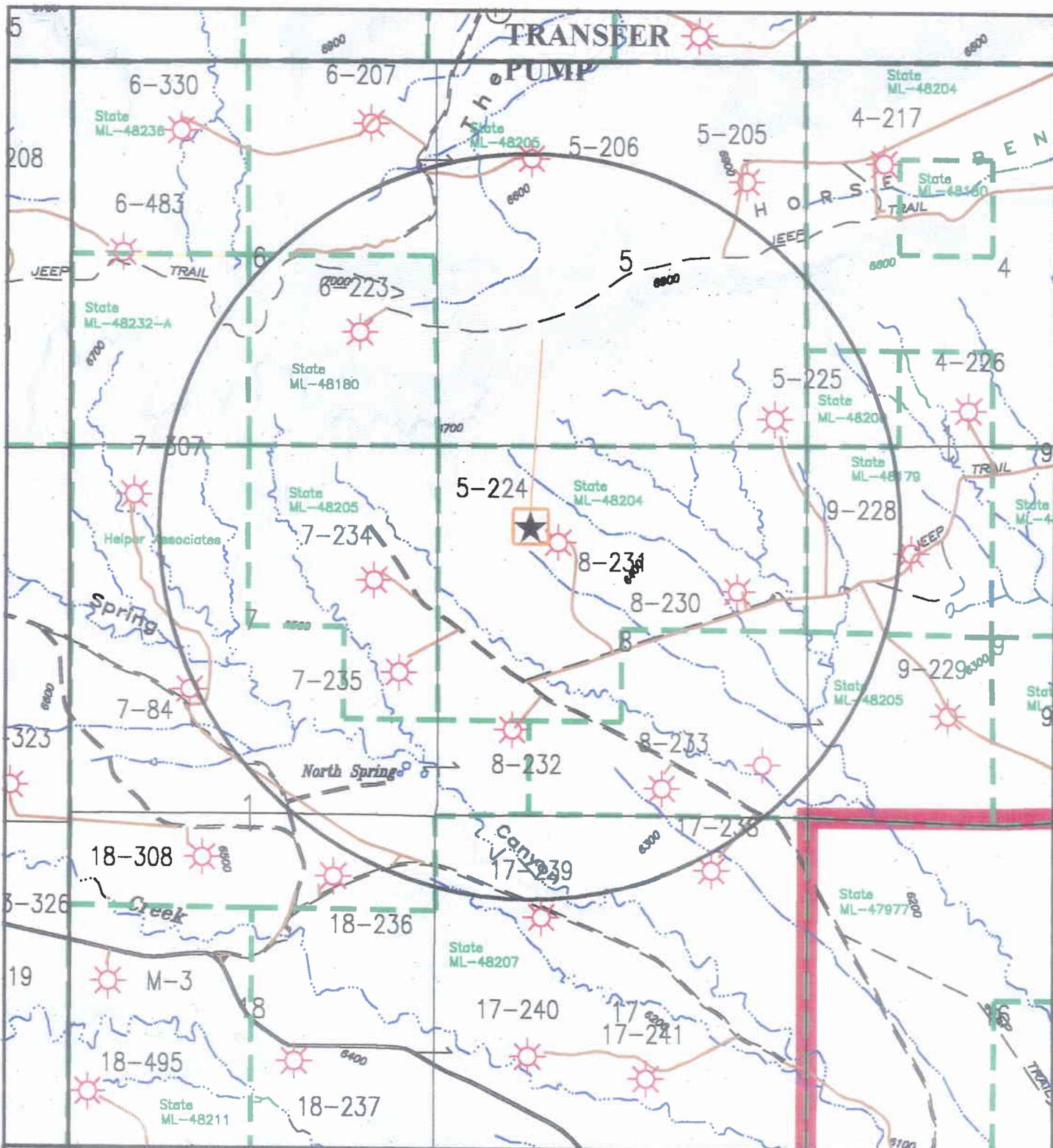
ConocoPhillips Company

TYPICAL CROSS SECTION
 Section 5, T15S, R9E, S.L.B.&M.
 WELL #05-224

Drawn By: BEN SCOTT	Checked By: L.W.J.
Drawing No. C-1	Date: 05/02/03
	Scale: 1" = 40'
Sheet 3 of 4	Job No. 1066

APPROXIMATE YARDAGES

CUT
 (6") Topsoil Stripping = 750 Cu. Yds.
 Remaining Location = 6504 Cu. Yds.
 TOTAL CUT = 7227 Cu. Yds.
 TOTAL FILL = 5634 Cu. Yds.



LEGEND

- Proposed Well Target Location: 
- Directional Well Pad Location: 
- Other Proposed Well Locations: 
- Proposed Road/Pipeline/Powerline: 
- Lease Boundary: 
- Existing Wells: 
- Existing Roads: 

Scale: 1" = 2000'

March 31, 2003

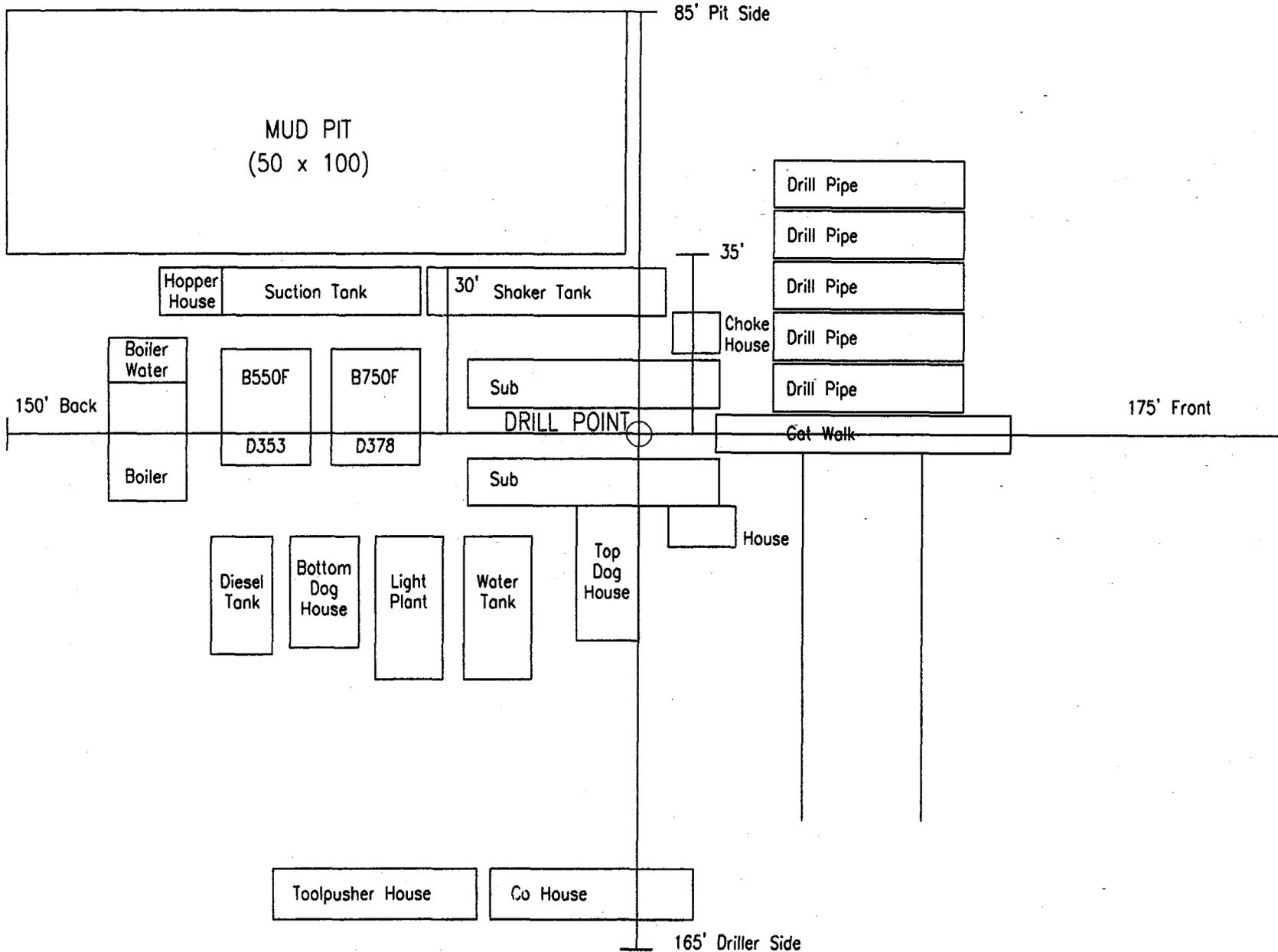
ConocoPhillips Company
 6825 South 5300 West
 P.O. Box 851
 Price, Utah 84501
 Phone: (435) 613-9777
 Fax: (435) 613-9782



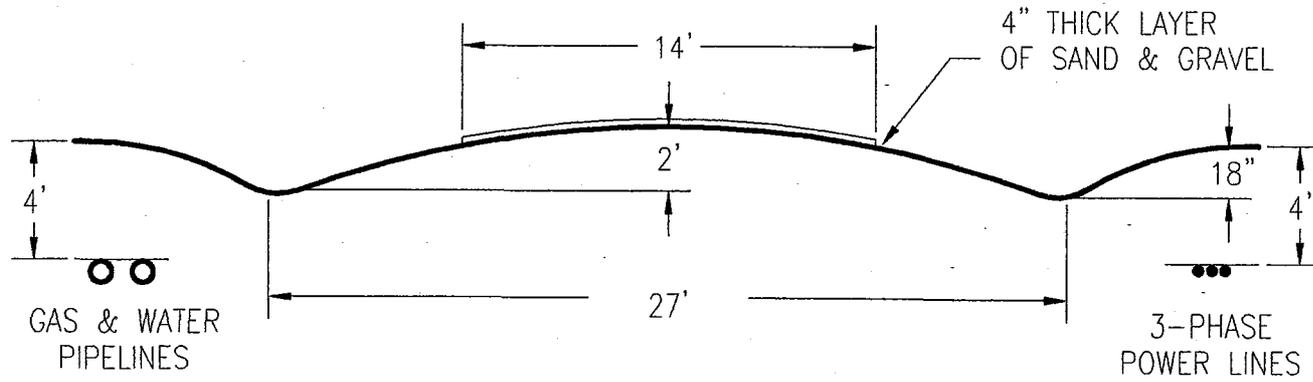
Well #5-224 (Directional)
 Section 5, T15S, R9E, S.L.B.&M.
 Carbon County, Utah

CONOCOPHILLIPS

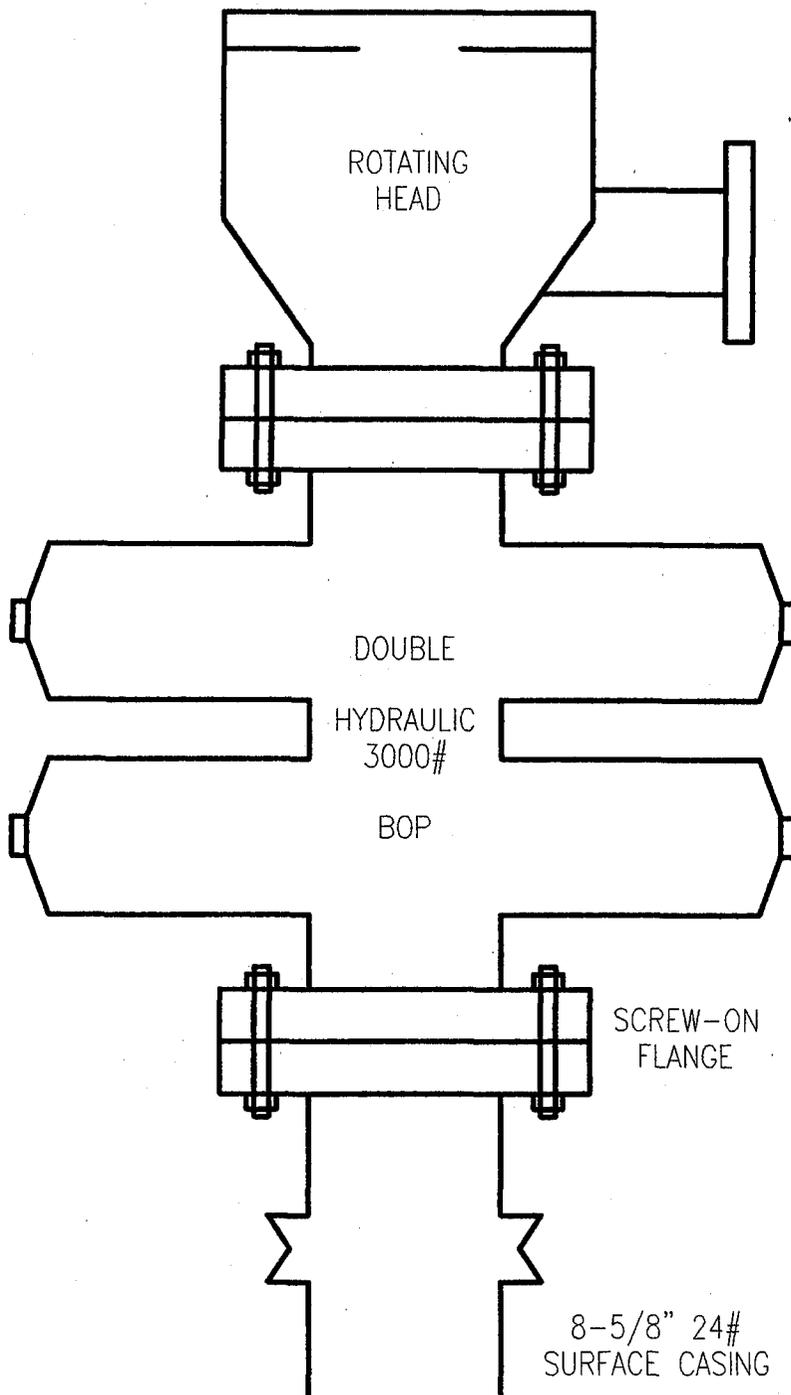
RIG LAYOUT (Approximately 250' x 325') Including Mud Pit



TYPICAL ROAD CROSS-SECTION



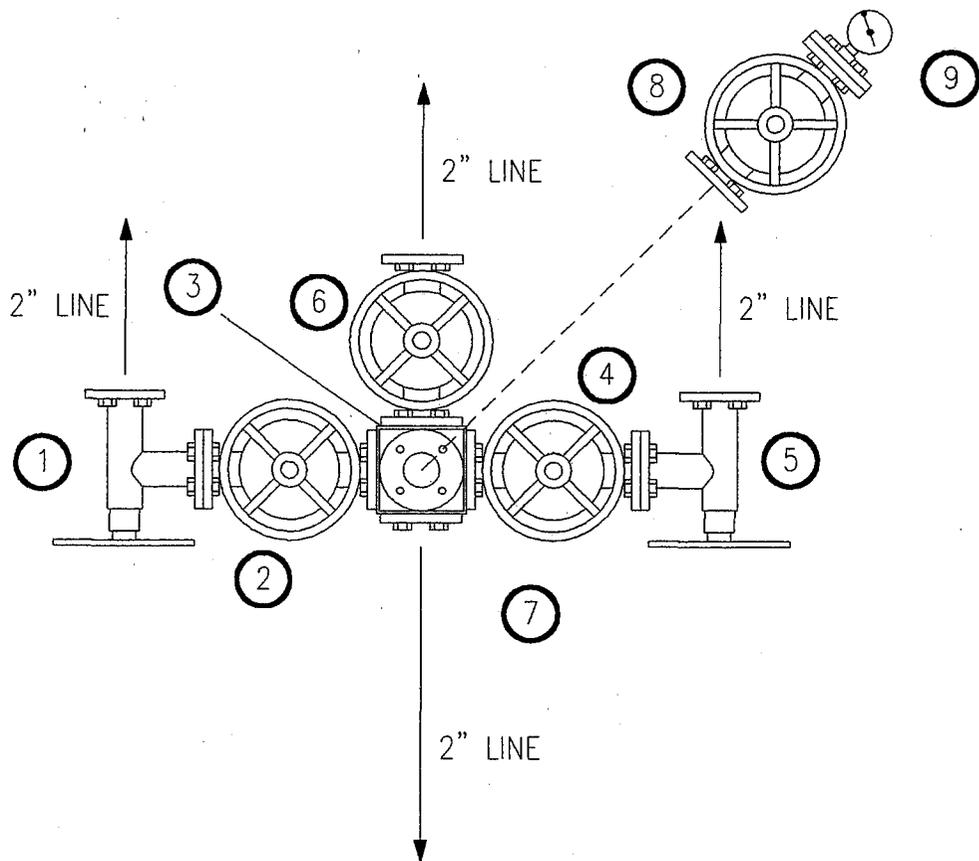
DIVERTER HEAD



- (1) 2" 5M FLANGED CHOKE
- (2) 2" 5M GATE VALVE (FLANGED)
- (3) 2" 5M STUDDED CROSS
- (4) 2" 5M GATE VALVE (FLANGED)
- (5) 2" 5M FLANGED CHOKE
- (6) 2" 5M GATE VALVE (FLANGED)
- (7) 2" LINE
- (8) 2" 5M GATE VALVE (FLANGED)
- (9) 3000# GAUGE

NOTE:

NUMBER 8 GATE VALVE SITS ON TOP OF MANIFOLD BETWEEN STUDDED CROSS AND 3000# GAUGE.



TO BOP
AND A NEW 2" BALL VALVE
FULL OPEN 5000 PSI

MANIFOLD

SURETY RIDER

To be attached to and form a part of

Bond No. 5952189

Type of
Bond: BOND OF LESSEE

dated
effective 01/31/2001
(MONTH-DAY-YEAR)

executed by PHILLIPS PETROLEUM COMPANY
(PRINCIPAL)

,as Principal,

and by SAFECO INSURANCE COMPANY OF AMERICA

,as Surety,

in favor of STATE OF UTAH
(OBLIGEE)

in consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing
PRINCIPAL NAME IS HEREBY AMENDED FROM PHILLIPS PETROLEUM COMPANY TO CONOCOPHILLIPS
COMPANY.

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider
is effective 01/01/2003
(MONTH-DAY-YEAR)

Signed and Sealed 02/28/2003
(MONTH-DAY-YEAR)

CONOCOPHILLIPS COMPANY
(PRINCIPAL)

By: P. Boggins
(PRINCIPAL) Pam Boggins, Its Agent & Attorney-in-Fact

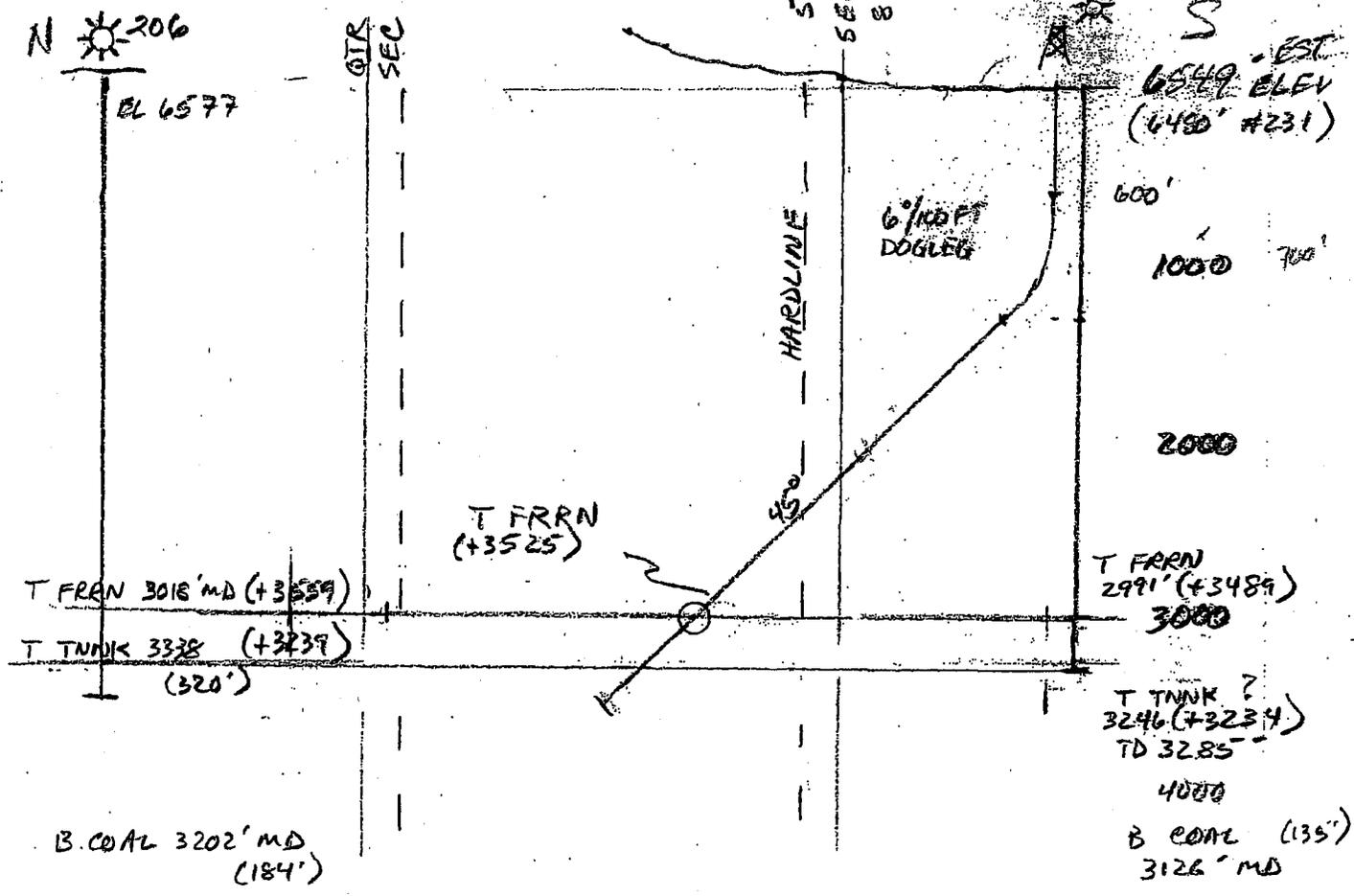
SAFECO INSURANCE COMPANY OF AMERICA
(SURETY)

By: [Signature]
(ATTORNEY-IN-FACT) FRANK A. WORD, JR.

DIRECTIONAL HOLE INFORMATION

#224D REV. D
 SURFACE LOC
 (# 231 EXPANDED LOC) 8-155-9E

A. CLOUD 5/29/03



EST ELEV 6549'

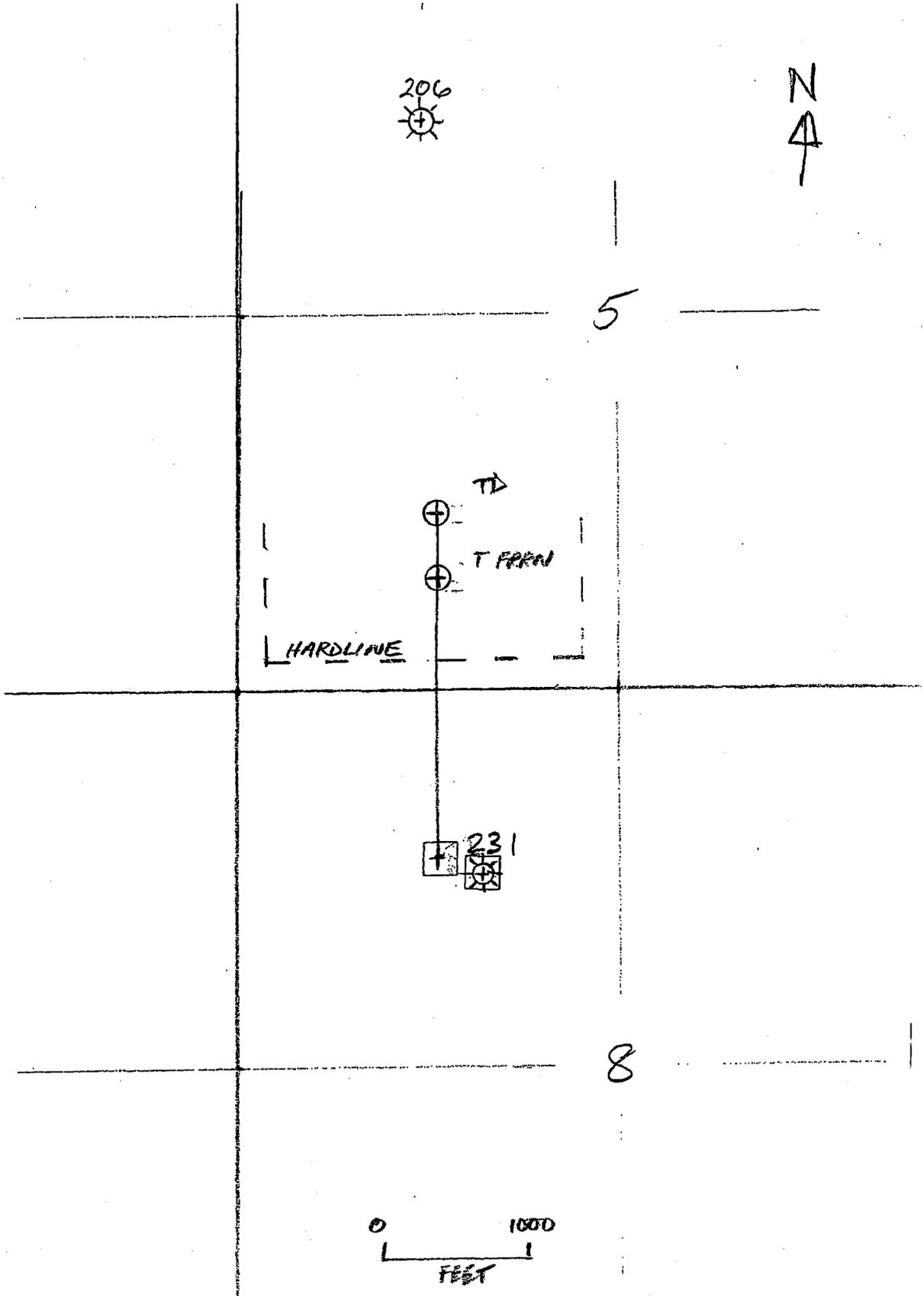
LOC	FROM SURF	TVD	EST MD
SURF LOC 8-155-9E	1174 FSL 1381 FWL	0'	0'
TOP FERRON 5-155-9E	800 FSL 1400 FWL 1975 N ~0' E	3024' (+3525 SSTVD)	3200'
TD 5-155-9E	1275 FSL 1400 FWL 2450' N ~0' E	~3500'	4550'

#224D

REVISED

T...CLOUD

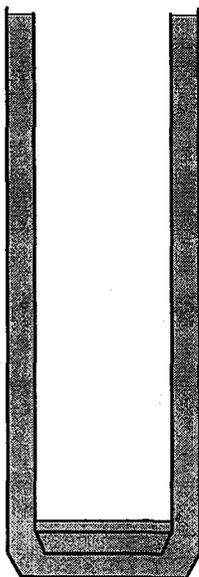
5/29/03



8-5/8" Surface Casing

Well # 224D

Well Information & Calculations



	Depth	Excess	<- Outer ->		<- Inner ->		cu ft/ft	bbbl/ft	cu ft	bbbl
			OD	ID	OD	ID				
RKB / Surface	0									
Displacement					8.625	8.097	0.3576	0.0637		29.8
Spacer Length	442									
Primary Cmt	500	100%	11.00	11.00	8.625	8.097	0.2542	0.0453	254.2	
Shoe Track	468	0%			8.625	8.097	0.3576	0.0637		11.4
Casing TD	500									
BHST Grad'nt	1.5									
Est BHST =	88 °F									

TOTAL TAIL SLURRY (ft³) 265.7
 TOTAL DISPLACEMENT VOLUME (bbbl) 29.8

PRIMARY CEMENT SLURRY

Premium Plus Cement		225 sx	Slurry Volume	266 cu ft
0.0% bwoc-db		0.0 lbs		47.3 bbl
0.0% bwoc-db		0.0 lbs	Slurry Density	15.6 ppg
CaCl ₂ (Accelerator)	2.0% bwoc-db	423.3 lbs	Slurry Yield	1.18 cu ft/sk
Flocele	0.250 lb/sk	56.3 lbs	Mix Fluid	5.2 gal/sk
Defoamer (if req'd)	0 gal/bbl	0.0 gal		

No excess's for losses, dead volumes, etc

SPACER REQUIREMENTS

Fresh Water 20 bbl 8.33 ppg

SLURRY DESIGN PARAMETERS

(Ref test : CO2-0092)

	<u>Lead Cement</u>	<u>Primary Cement</u>
Thickening Time (approx; 80°F BHCT)	NA	02:30 to 3:00
Compressive Strength (est)	80 deg F	80 deg F
8 hr	NA	671
12 hr	NA	1,116 psi
24 hr	NA	2,452 psi
Free Water	NA	NA

PUMPING SCHEDULE

	Volume Rate		Job Time		Cement Thickening Time	
	bbls	bpm	Pump	min	min	max
Spacer #1	3	4	HES	1		
Drop Bottom Plug	0	0	HES	8		
Spacer #2 (*Fresh Water*)	20	4	HES	0		
Mix & Pump Lead Slurry	0.0	5	HES	0	NA	(est)
Mix & Pump Tail Slurry	47.3	4	HES	12	02:30 to 3:00	(est)
Drop Top Plug	0	0	HES	8		
Displacement (*Fresh Water*)	29.8	3.5	HES	9		
Total Est Job Time / Cementing time		37 min		28 min		
Design Recommended Min/Max TT				0.47 hr		

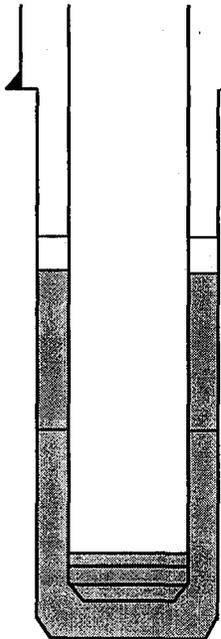
MATERIAL REQUIREMENTS

		BULK VOLUMES	BULK WEIGHTS
Premium Plus Cement	230.0 sx	230.0 ft ³	10.81 tons
CaCl ₂ (Accelerator)	430.0 lbs	8.5149 ft ³	0.22 tons
Flocele	60.0 lbs	4.0 ft ³	0.03 tons
Defoamer (if req'd)	0.0 gal		
		<u>243 ft³</u>	<u>11.06 tons</u>

**5-1/2" Production Casing
Well Information & Calculations**

Well # 224D

	Depth	Excess	<- Outer ->		<- Inner ->		cu ft/ft	bbl/ft	cu ft	bbl
			OD	ID	OD	ID				
Surface	0									
8-5/8" shoe	500		8.625	8.097	5.500	4.892	0.1926	0.034		
Displacement					5.500	4.892	0.1305	0.023		103.5
Spacer Length	648									
Lead Cmt Top	2,504	30%	7.875	7.875	5.500	4.892	0.1733	0.031	169.8	
Tail Cmt Top	3,258	30%	7.875	7.875	5.500	4.892	0.1733	0.031	277.9	
Float Collar	4,450	0%			5.500	4.892	0.1305	0.023	5.5	
Csg Shoe (MD)	4,492									
Shoe (TVD)	3,500									
BHST Grad'nt	0.71									
Est BHST =	105 °F									
TOTAL LEAD SLURRY VOLUME (CU FT)									169.8	
TOTAL TAIL SLURRY VOLUME (CU FT)									283.4	
TOTAL DISPLACEMENT VOLUME (BBL)										103.5



--> See notes following on BHST.

LEAD CEMENT SLURRY

Premium Plus 50:50 Poz		86	sx	Slurry Volume	170	cu ft
Premium Plus Cement	50% bv	4,052	lbs		30.2	bbl
JB Flyash / Poz	50% bv	3,039	lbs	Slurry Density	12.5	ppg
Gel	8.0% bwob-DB	567	lbs	Slurry Yield	1.97	cu ft/sk
CalSeal	10.0% bwob-DB	709	lbs	Mix Fluid	10.48	gal/sk
Calcium Chloride	0.0% bwob-DB	0	lbs			
Flocele	0.25 lb/sk	22	lbs			

No excess's for losses, dead volumes, etc

TAIL CEMENT SLURRY

Premium Plus Cement		177	sx	Slurry Volume	283	cu ft
Premium Plus Cement	100% bv	16,651	lbs		50.5	bbl
JB Flyash / Poz	0% bwob-DB	0	lbs	Slurry Density	14.2	ppg
Gel	0% bwob-DB	0	lbs	Slurry Yield	1.60	cu ft/sk
CalSeal	10.00% bwob-DB	1,665	lbs	Mix Fluid	7.92	gal/sk
Calcium Chloride	1.00% bwob-DB	167	lbs			
Flocele	0.25 lb/sk	44.3	lbs			

No excess's for losses, dead volumes, etc

SLURRY DESIGN PARAMETERS

(reference test: CO2-0119)

	<u>Lead Cement</u>	<u>Tail Cement</u>
Thickening Time (est; 80°F BHCT)	10:00 to 12:00	+/- 9:55
Compressive Strength (est)	80 deg F	80 deg F
8 hr	NA	122 psi
12 hr	"	249 psi
24 hr	"	488 psi
36 hr	"	600 psi
500 psi		25:01 hr:min

SPACER REQUIREMENTS

Fresh Water	20 bbl	8.33 ppg
-------------	--------	----------

PUMPING SCHEDULE

	Volume Rate		Job Time		Cement Thickening Time	
	bbls	bpm	Pump	min		
Spacer #1 (*Fresh Water*)	20	4	HES	5		
Drop Bottom Plug			HES	8		
Mix & Pump Lead Slurry	30.2	4	HES	8	10:00 to 12:00	
Mix & Pump Tail Slurry	50.5	4	HES	13	9:55	(est)
Drop Top Plug (N/A)			HES	5		
Displacement (Fresh Water)	103.5	5	HES	21		
Total Est Job Time / Cementing time		59 min		46 min	min	max
Design Recommended Min/Max TT				0.76 hr		

MATERIAL REQUIREMENTS

		BULK VOLUMES	BULK WEIGHTS
Premium Plus 50:50 Poz	87.0 sx	87.0 ft ³	3.49 tons
Premium Plus Cement	180.0 sx	180.0 ft ³	8.46 tons
Gel	570.0 lbs	9.5 ft ³	0.29 tons
CalSeal	2,380.0 lbs	79.3 ft ³	1.19 tons
Calcium Chloride	170.0 lbs	3.4 ft ³	0.09 tons
Flocele	66.0 lbs	0.0 ft ³	0.03 tons

359.2 ft³

13.54 tons

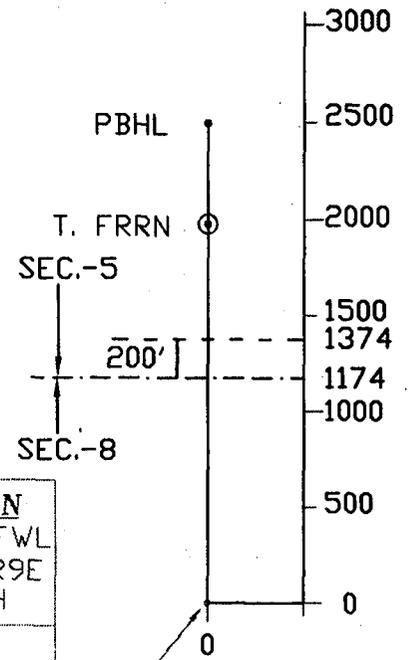
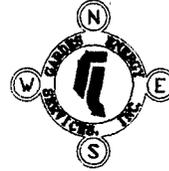
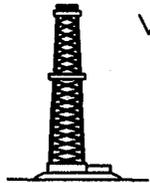
**CONOCO-PHILLIPS
WELL, 224D, DRUNKARDS WASH
SEC.8, T15S, R9E
CARBON COUNTY, UTAH**

7/25/03

PROPOSAL

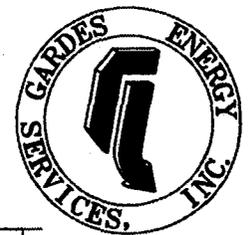
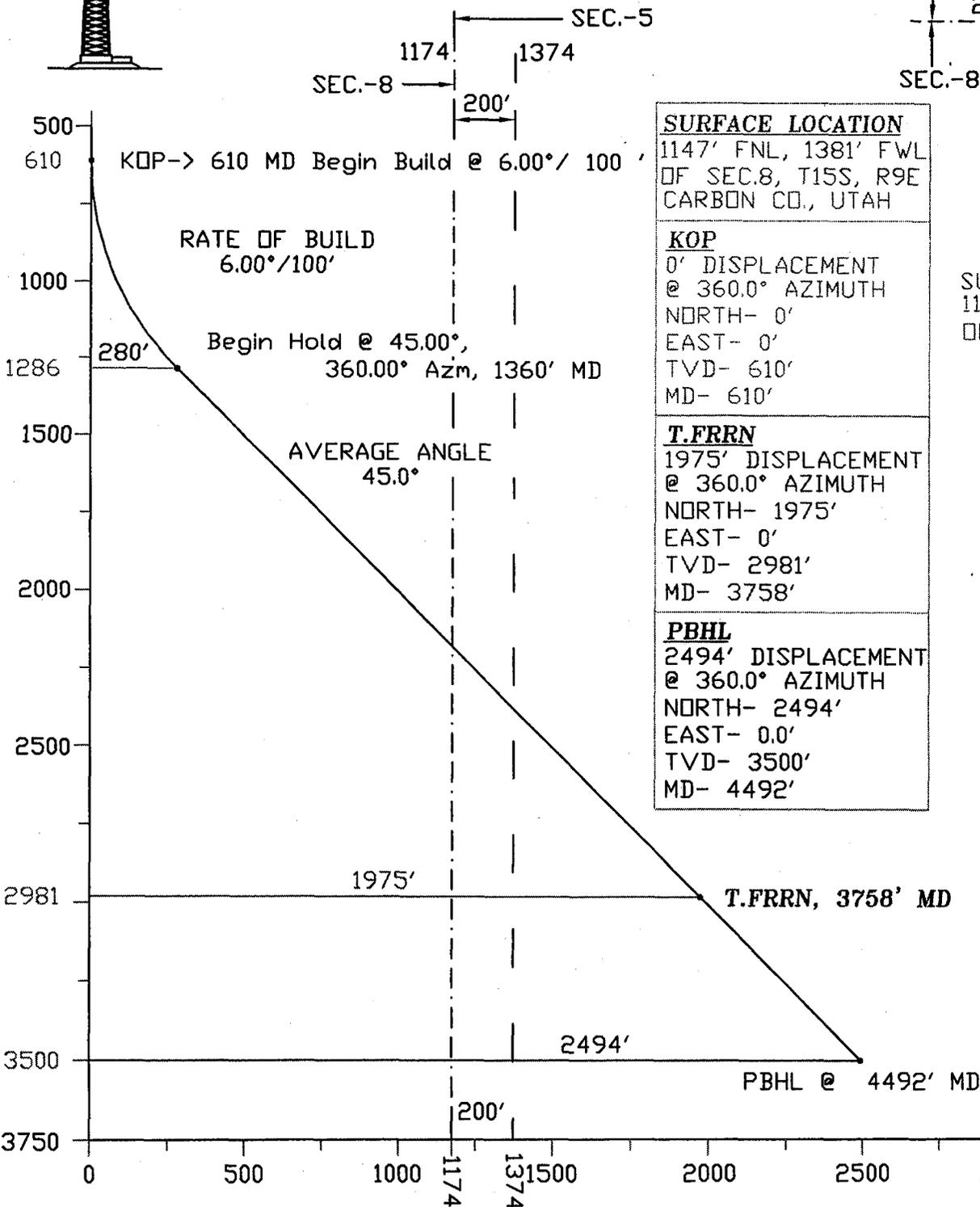
**PLAN VIEW
SCALE: 1 Inch = 1000'**

**VERTICAL SECTION
SCALE: 1 Inch = 500'
VERTICAL SECTION PLANE = .00**



**SURFACE LOCATION
1147' FNL, 1381' FWL
OF SEC.8, T15S, R9E
CARBON CO., UTAH**

SURFACE LOCATION
1147' FNL, 1381' FWL OF SEC.8, T15S, R9E CARBON CO., UTAH
KOP
0' DISPLACEMENT @ 360.0° AZIMUTH NORTH- 0' EAST- 0' TVD- 610' MD- 610'
T.FRRN
1975' DISPLACEMENT @ 360.0° AZIMUTH NORTH- 1975' EAST- 0' TVD- 2981' MD- 3758'
PBHL
2494' DISPLACEMENT @ 360.0° AZIMUTH NORTH- 2494' EAST- 0.0' TVD- 3500' MD- 4492'



Job Number:	State/Country: UTAH, USA
Company: CONOCO-PHILLIPS	Declination:
Lease/Well: DRUNKARDS WASH, 224D	Grid:
Location: CARBON COUNTY	File name: H:\IRON\SURVEYS\CP224DR3.SVY
Rig Name:	Date/Time: 25-Jul-03 / 13:34
RKB:	Curve Name: C4, 7/25/03,
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	CLOSURE		<i>Dogleg Severity Deg/100</i>
							<i>Distance FT</i>	<i>Direction Deg</i>	
KOP-> 610 MD Begin Build @ 6.00°/ 100 Ft,									
610.46	.00	360.00	610.46	.00	.00	.00	.00	.00	.00
710.46	6.00	360.00	710.27	5.23	.00	5.23	5.23	.00	6.00
810.46	12.00	360.00	809.00	20.87	.00	20.87	20.87	.00	6.00
910.46	18.00	360.00	905.54	46.74	.00	46.74	46.74	.00	6.00
1010.46	24.00	360.00	998.86	82.56	.00	82.56	82.56	.00	6.00
1110.46	30.00	360.00	1087.92	127.94	.00	127.94	127.94	.00	6.00
1210.46	36.00	360.00	1171.75	182.38	.00	182.38	182.38	.00	6.00
1310.46	42.00	360.00	1249.43	245.28	.00	245.28	245.28	.00	6.00
Begin Hold @ 45.00°, 360.00° Azm, 1360' MD, 1286' TVD, 280' VS									
1360.46	45.00	360.00	1285.69	279.69	.00	279.69	279.69	.00	6.00
1460.46	45.00	360.00	1356.40	350.40	.00	350.40	350.40	.00	.00
1560.46	45.00	360.00	1427.11	421.11	.00	421.11	421.11	.00	.00
1660.46	45.00	360.00	1497.82	491.82	.00	491.82	491.82	.00	.00
1760.46	45.00	360.00	1568.54	562.54	.00	562.54	562.54	.00	.00
1860.46	45.00	360.00	1639.25	633.25	.00	633.25	633.25	.00	.00
1960.46	45.00	360.00	1709.96	703.96	.00	703.96	703.96	.00	.00
2060.46	45.00	360.00	1780.67	774.67	.00	774.67	774.67	.00	.00
2160.46	45.00	360.00	1851.38	845.38	.00	845.38	845.38	.00	.00
2260.46	45.00	360.00	1922.09	916.09	.00	916.09	916.09	.00	.00
2360.46	45.00	360.00	1992.80	986.80	.00	986.80	986.80	.00	.00
2460.46	45.00	360.00	2063.51	1057.51	.00	1057.51	1057.51	.00	.00
2560.46	45.00	360.00	2134.22	1128.22	.00	1128.22	1128.22	.00	.00
2660.46	45.00	360.00	2204.93	1198.93	.00	1198.93	1198.93	.00	.00
2760.46	45.00	360.00	2275.64	1269.64	.00	1269.64	1269.64	.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2860.46	45.00	360.00	2346.35	1340.35	.00	1340.35	1340.35	.00	.00
2960.46	45.00	360.00	2417.06	1411.06	.00	1411.06	1411.06	.00	.00
3060.46	45.00	360.00	2487.77	1481.77	.00	1481.77	1481.77	.00	.00
3160.46	45.00	360.00	2558.48	1552.48	.00	1552.48	1552.48	.00	.00
3260.46	45.00	360.00	2629.20	1623.20	.00	1623.20	1623.20	.00	.00
3360.46	45.00	360.00	2699.91	1693.91	.00	1693.91	1693.91	.00	.00
3460.46	45.00	360.00	2770.62	1764.62	.00	1764.62	1764.62	.00	.00
3560.46	45.00	360.00	2841.33	1835.33	.00	1835.33	1835.33	.00	.00
3660.46	45.00	360.00	2912.04	1906.04	.00	1906.04	1906.04	.00	.00
3758' MD, 2981' TVD, 1975' VS									
3757.98	45.00	360.00	2981.00	1975.00	.00	1975.00	1975.00	.00	.00
3857.98	45.00	.00	3051.71	2045.71	.00	2045.46	2045.71	360.00	.00
3957.98	45.00	360.00	3122.42	2116.42	.00	2116.29	2116.42	360.00	.00
4057.98	45.00	360.00	3193.13	2187.13	.00	2187.08	2187.13	360.00	.00
4157.98	45.00	360.00	3263.84	2257.84	.00	2257.81	2257.84	360.00	.00
4257.98	45.00	360.00	3334.55	2328.55	.00	2328.53	2328.55	360.00	.00
4357.98	45.00	360.00	3405.26	2399.26	.00	2399.24	2399.26	360.00	.00
4457.98	45.00	360.00	3475.97	2469.97	.00	2469.96	2469.97	360.00	.00
PBHL @ 3500 Ft TVD, 4492' MD, 2494' VS									
4491.96	45.00	360.00	3500.00	2494.00	.00	2493.98	2494.00	360.00	.00

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/21/2003

API NO. ASSIGNED: 43-007-30896

WELL NAME: UTAH 05-224D

OPERATOR: CONOCOPHILLIPS COMPANY (N2335)

CONTACT: JEAN SEMBORSKI

PHONE NUMBER: 435-613-9777

PROPOSED LOCATION:

NENW 08 150S 090E

SURFACE: 1174 FNL 1381 FWL

SESW BOTTOM: 1320 FSL 1381 FWL Sec 5

CARBON

DRUNKARDS WASH (48)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-48205

SURFACE OWNER: 3 - State

PROPOSED FORMATION: FRSD

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	8/26/03
Geology		
Surface		

LATITUDE: 39.53911

LONGITUDE: 110.94227

RECEIVED AND/OR REVIEWED:

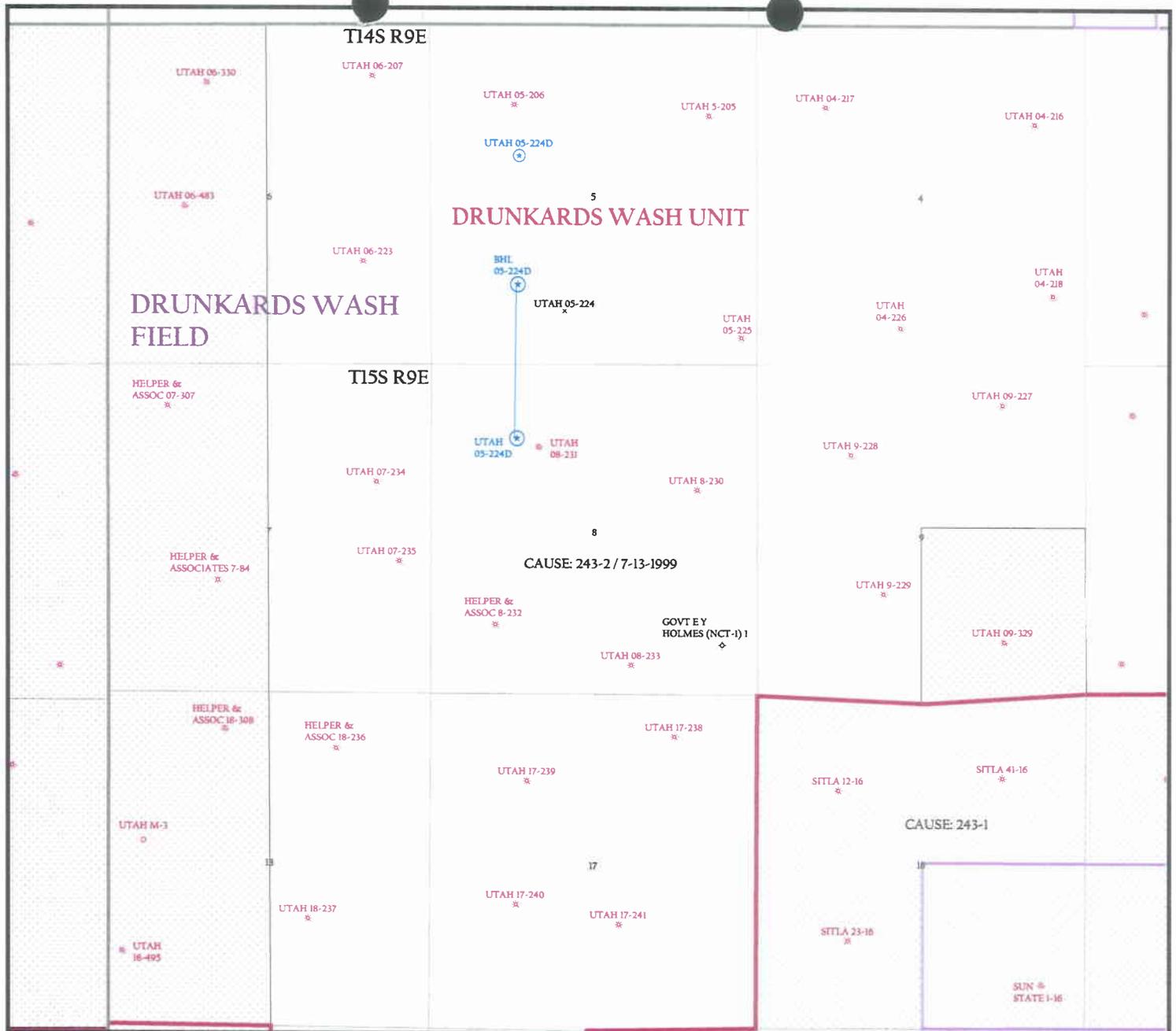
- Plat
- Bond: Fed[] Ind[] Sta[3] Fee[]
(No. 5952189)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

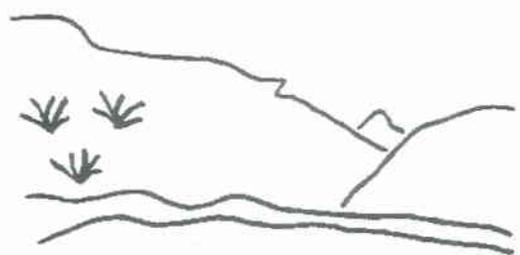
- R649-2-3.
- Unit DRUNKARDS WASH
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 243-2
Eff Date: 7-13-09
Siting: 460' fr u boundary of Uncomm tract
- R649-3-11. Directional Drill

COMMENTS: Needs Permit (Rec'd 7-2-03)

STIPULATIONS: 1- STATEMENT OF BASIS



OPERATOR: CONOCOPHILLIPS CO (N2335)
 SEC. 8 T.15S, R.9E
 FIELD: DRUNKARDS WASH (630)
 COUNTY: CARBON
 CAUSE: 243-2 / 7-13-1999



Utah Oil Gas and Mining

- Wells**
- GAS INJECTION
 - GAS STORAGE
 - LOCATION ABANDONED
 - NEW LOCATION
 - PLUGGED & ABANDONED
 - PRODUCING GAS
 - PRODUCING OIL
 - SHUT-IN GAS
 - SHUT-IN OIL
 - TEMP. ABANDONED
 - TEST WELL
 - WATER INJECTION
 - WATER SUPPLY
 - WATER DISPOSAL

- Unit Status**
- EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PENDING
 - PI OIL
 - PP GAS
 - PP GEOTHERML
 - PP OIL
 - SECONDARY
 - TERMINATED

- Field Status**
- ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - PROPOSED
 - STORAGE
 - TERMINATED



PREPARED BY: DIANA MASON
 DATE: 2-JULY-2003

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

OPERATOR: Phillips
WELL NAME & NUMBER: Utah 05-224D
API NUMBER: 43-007-30896
LOCATION: 1/4,1/4 NENW Sec: 8 TWP: 15S RNG: 9E 1174 FNL 1380 FWL

Geology/Ground Water:

Aquifers with high quality ground water are unlikely to be penetrated during drilling. This well will likely be spudded into a moderately permeable soil developed on Quaternary/Tertiary Pediment Mantle that was deposited on the Blue Gate Member of the Mancos Shale. Garley Canyon Sandstone Beds of the Blue Gate Member of the Mancos Shale may be present at this location. If the Garley Canyon Beds are present (probable) and wet (possible - standing water in upper Garley Canyon Beds ~2½ miles north in Pinnacle Canyon), both beds should be included within the proposed surface casing string. The operator is informed of the potential for wet Garley Canyon Beds and will respond to protect the zone by extending the surface casing string as needed to protect the beds. North Spring arises from the base of a ground water charged lobe of Pediment Mantle in the North Spring Canyon drainage about ¾ mile south southwest of the location. Five water rights have been filed within a mile of the location, two of which are for the waters of a well operated by the Operator in adjacent Section 18. The proposed casing and cement program will adequately isolate any zones of water penetrated.

Reviewer: Christopher Kierst **Date:** 7/11/03

Surface:

Proposed location is ~5 miles west of Price, Utah. Staked location lies just south of Horse Bench in Carbon County Utah. The direct area drains to the southeast into Miller Creek then eastward eventually into the Price River, a year-round live water source 10 miles east of the proposed location. Dry washes run throughout the area. This well will be a directionally drilled well due to topography and raptor issues. SITLA and Carbon County were invited to the on-site meeting however chose not to attend.

Reviewer: Mark L. Jones **Date:** July 2, 2003

Conditions of Approval/Application for Permit to Drill:

1. Culverts sufficient to handle run-off as needed where crossing drainages.
2. Berm the location and pit.
3. Divert all existing drainages around the location.
4. 12 mil minimum synthetic pit liner, if not using a metal pit.

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: ConocoPhillips
WELL NAME & NUMBER: Utah 05-224D
API NUMBER: 43-007-30896
LEASE: State **FIELD/UNIT:** _____
LOCATION: 1/4, 1/4 NENW **Sec:** 8 **TWP:** 15S **RNG:** 9E 1174 **FNL** 1381 **FWL**
LEGAL WELL SITING: 460' from unit boundary and uncommitted tracts.
GPS COORD (UTM): X = 505045 E; Y = 4376405 N **SURFACE OWNER:** SITLA

Directional hole; BH Data = SW/4 5 15S 9E, 1275 FSL 1400 FWL.

PARTICIPANTS

M. Jones (DOGM), J. Semborski (Phillips), Larry Jensen (NELCO), and Tony Wright (DWR). SITLA and Carbon County was invited to the on-site meeting however chose not to attend.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~5 miles west of Price, Utah. Staked location lies just south of Horse Bench in Carbon County Utah. The direct area drains to the southeast into Miller Creek then eastward eventually into the Price River, a year-round live water source 10 miles east of the proposed location. Dry washes run throughout the area. This well will be a directionally drilled well due to topography and raptor issues.

SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife habitat and grazing.

PROPOSED SURFACE DISTURBANCE: 400' x 200' and a 100' x 50' x 10' pit.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 12 proposed well are within a 1 mile radius of the above proposed well.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Along roadside.

SOURCE OF CONSTRUCTION MATERIAL: Obtained locally and transported in.

ANCILLARY FACILITIES: None anticipated.

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Crude oil production is unlikely. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via a salt water disposal well. Used oil from drilling operations and support is hauled to a used oil recycler and reused.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Dry washes.

FLORA/FAUNA: Pinion Juniper, Mtn Mahogany, grasses, Elk, deer, small game, raptors and other fowl, and rodents.

SOIL TYPE AND CHARACTERISTICS: Gravelly sandy clay.

EROSION/SEDIMENTATION/STABILITY: Stable until disturbed.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Dugout earthen pit.

LINER REQUIREMENTS (Site Ranking Form attached): Liner required, unless usage of a metal pit is decided upon.

SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement.

SURFACE AGREEMENT: As per SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: Arch study completed and placed on file with SITLA. Copy will be submitted to DOGM.

OTHER OBSERVATIONS/COMMENTS

ATTACHMENTS

Photos of this location were taken and placed on file.

Mark L. Jones
DOGM REPRESENTATIVE

April 7, 2003 / 1:00 pm
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>10</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>10</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score 45 (Level I Sensitivity)

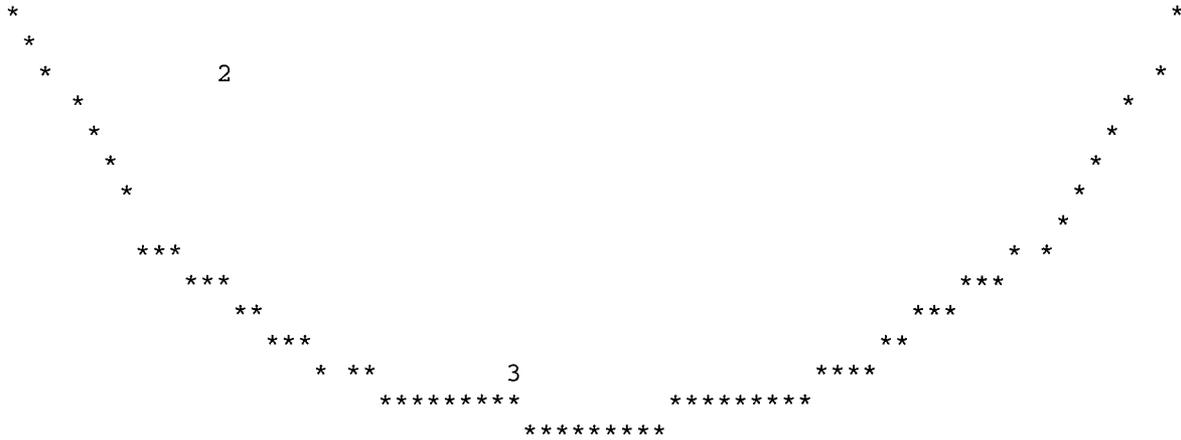
Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.







UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO DIAMETER DEPTH YEAR LOG	POINT OF DIVERSION DESCRIPTION NORTH EAST CNR SEC TWN RNG B&M	U A N P
0	91 5026	.0000	3.80	Storm Run-off	S 2433 E 1704 SW 32 14S 9E SL	UT 8
				WATER USE(S): STOCKWATERING	PRIORITY DATE: 08/20/1999	
				School & Institutional Trust Lands Admin 675 East 500 South, Suite 500	Salt Lake City	
1	91 4251	.0220	.00	North Spring		UT 8
				WATER USE(S): STOCKWATERING	PRIORITY DATE: 00/00/1869	
				Fiechko, Frank H. and Carol L. 871 East 6370 South	Price	
2	91 4952	5.0000	.00	Underground Water Wells	N 1764 W 1767 NE 18 15S 9E SL	X
				WATER USE(S): IRRIGATION STOCKWATERING MUNICIPAL OTHER	PRIORITY DATE: 06/23/1993	
				Phillipds Petroleum Company 9780 Mt. Pyramid Ct. #200	Englewood	CO 8
2	a19276	5.0000	.00	Underground Water Wells	N 1764 W 1767 NE 18 15S 9E SL	X
				WATER USE(S): IRRIGATION STOCKWATERING MUNICIPAL OTHER	PRIORITY DATE: 08/31/1995	
				Phillips Petroleum Company 9780 Mt. Pyramid Ct. #200	Englewood	CO 8

3 91 4729 .0000 .00 North Spring Wash

WATER USE(S): STOCKWATERING OTHER

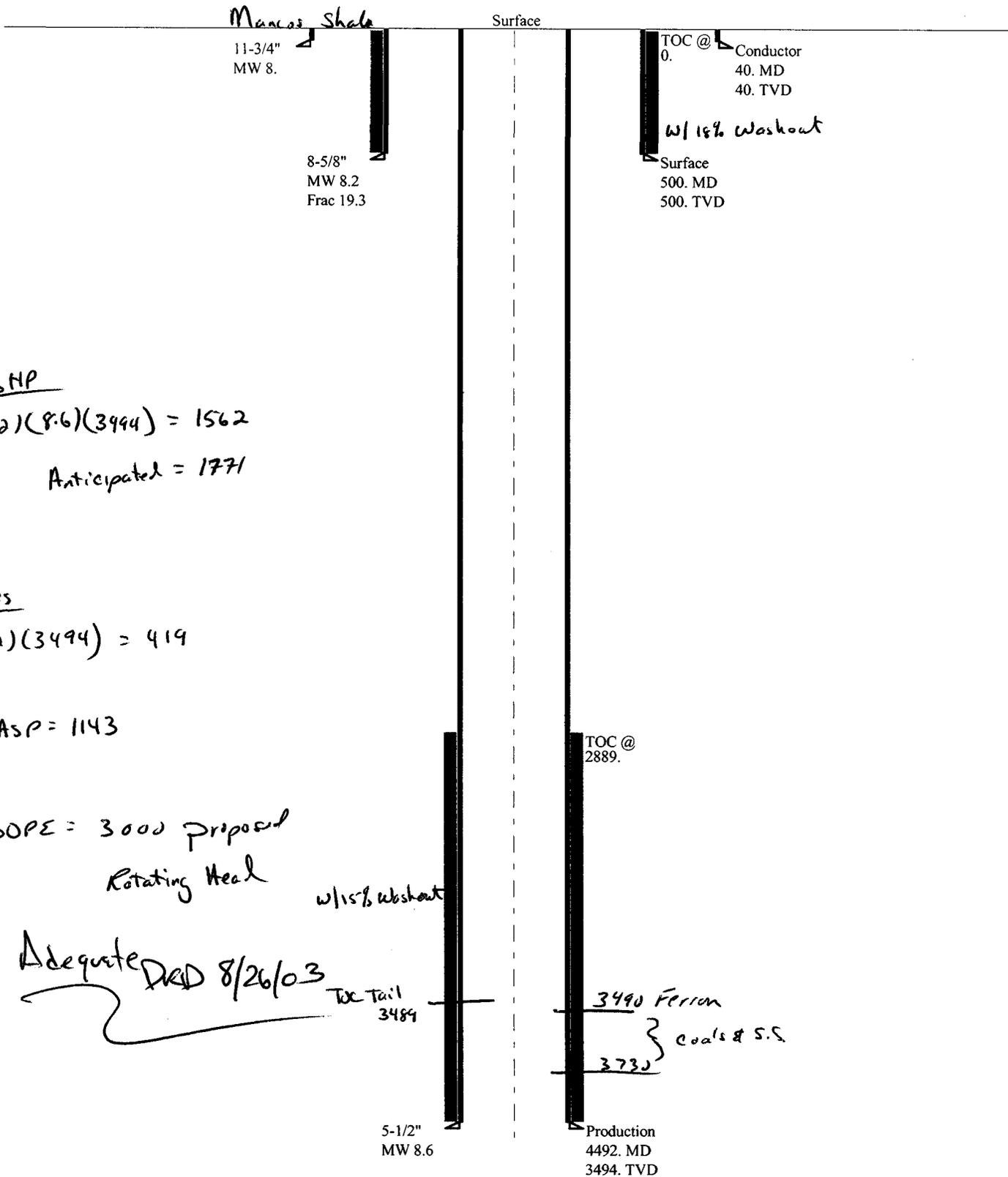
State of Utah School & Institutional Tru 675 East 500 South, Suite 500

PRIORITY DATE: 00/00/1869

Salt Lake City UT 8

05-03 ConocoPhillips Utah 05-224D

Casing Schematic



Well name:

05-03 ConocoPhillips Utah 05-224DOperator: **PhillipsConoco Company**

String type: Production

Project ID:

43-007-30896

Location: Carbon Co.

Design parameters:**Collapse**Mud weight: 8.600 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 114 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 368 ft

Cement top: 2,889 ft

BurstMax anticipated surface
pressure: 0 psi
Internal gradient: 0.447 psi/ft
Calculated BHP 1,561 psi

No backup mud specified.

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 3,848 ft

Directional Info - Build & HoldKick-off point 500 ft
Departure at shoe: 2519 ft
Maximum dogleg: 12 °/100ft
Inclination at shoe: 45 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft ³)
1	4492	5.5	17.00	N-80	LT&C	3494	4492	4.767	154.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1561	6290	4.029	1561	7740	4.96	59	348	5.86 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & MiningDate: August 21, 2003
Salt Lake City, Utah**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 3494 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	05-03 ConocoPhillips Utah 05-224D	
Operator:	PhillipsConoco Company	
String type:	Surface	Project ID: 43-007-30896
Location:	Carbon Co.	

<p>Design parameters:</p> <p>Collapse Mud weight: 8.200 ppg Design is based on evacuated pipe.</p> <p>Burst Max anticipated surface pressure: 0 psi Internal gradient: 0.447 psi/ft Calculated BHP: 223 psi No backup mud specified.</p>	<p>Minimum design factors:</p> <p>Collapse: Design factor 1.125</p> <p>Burst: Design factor 1.00</p> <p>Tension: 8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) Buttress: 1.60 (J) Premium: 1.50 (J) Body yield: 1.50 (B)</p> <p>Tension is based on air weight. Neutral point: 438 ft</p>	<p>Environment: H2S considered? No Surface temperature: 65 °F Bottom hole temperature: 72 °F Temperature gradient: 1.40 °F/100ft Minimum section length: 185 ft</p> <p>Cement top: Surface</p> <p>Non-directional string.</p> <p>Re subsequent strings: Next setting depth: 3,494 ft Next mud weight: 8.600 ppg Next setting BHP: 1,561 psi Fracture mud wt: 19.250 ppg Fracture depth: 650 ft Injection pressure: 650 psi</p>
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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	500	8.625	24.00	J-55	ST&C	500	500	7.972	24.1

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	213	1370	6.434	223	2950	13.21	12	244	20.34 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: August 21, 2003
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 500 ft, a mud weight of 8.2 ppg. The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 (801) 538-5340 telephone
 (801) 359-3940 fax
 (801) 538-7223 TTY
 www.nr.utah.gov

Michael O. Leavitt
 Governor
 Robert L. Morgan
 Executive Director
 Lowell P. Braxton
 Division Director

August 26, 2003

ConocoPhillips Company
 6825 S 5300 W
 Price, UT 84501

Re: Utah 05-224D Well, 1174' FNL, 1381' FWL, NE NW, Sec. 8, T. 15 South, R. 9 East,
Bottom Location 1320' FSL, 1381' FWL, SE SW, Sec. 5, T. 15 South, R. 9 East,
Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30896.

Sincerely,

John R. Baza
 Associate Director

pab
 Enclosures

cc: Carbon County Assessor
 SITLA

Operator: _____ ConocoPhillips Company
Well Name & Number _____ Utah 05-224D
API Number: _____ 43-007-30896
Lease: _____ ML-48205

Location: NE NW **Sec. 8** **T. 15 South** **R. 9 East**
Bottom Location: SE SW **Sec. 5** **T. 15 South** **R. 9 East**

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)



State of Utah

Department of
Natural ResourcesROBERT L. MORGAN
*Executive Director*Division of
Oil, Gas & MiningLOWELL P. BRAXTON
*Division Director*OLENE S. WALKER
*Governor*GAYLE F. McKEACHNIE
Lieutenant Governor

September 21, 2004

Jean Semborski
ConocoPhillips Company
P O Box 851
Price, UT 84501Re: APD Rescinded – Utah 05-224D Sec. 8, T. 15S, R. 9E Carbon County,
Utah API No. 43-007-30896

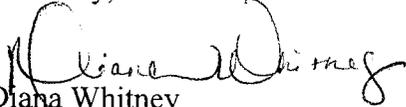
Dear Ms. Semborski:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on August 26, 2003. On September 21, 2004, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective September 21, 2004.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Whitney
Engineering Technician
cc: Well File
SITLA, Ed Bonner