MINING COMPANY

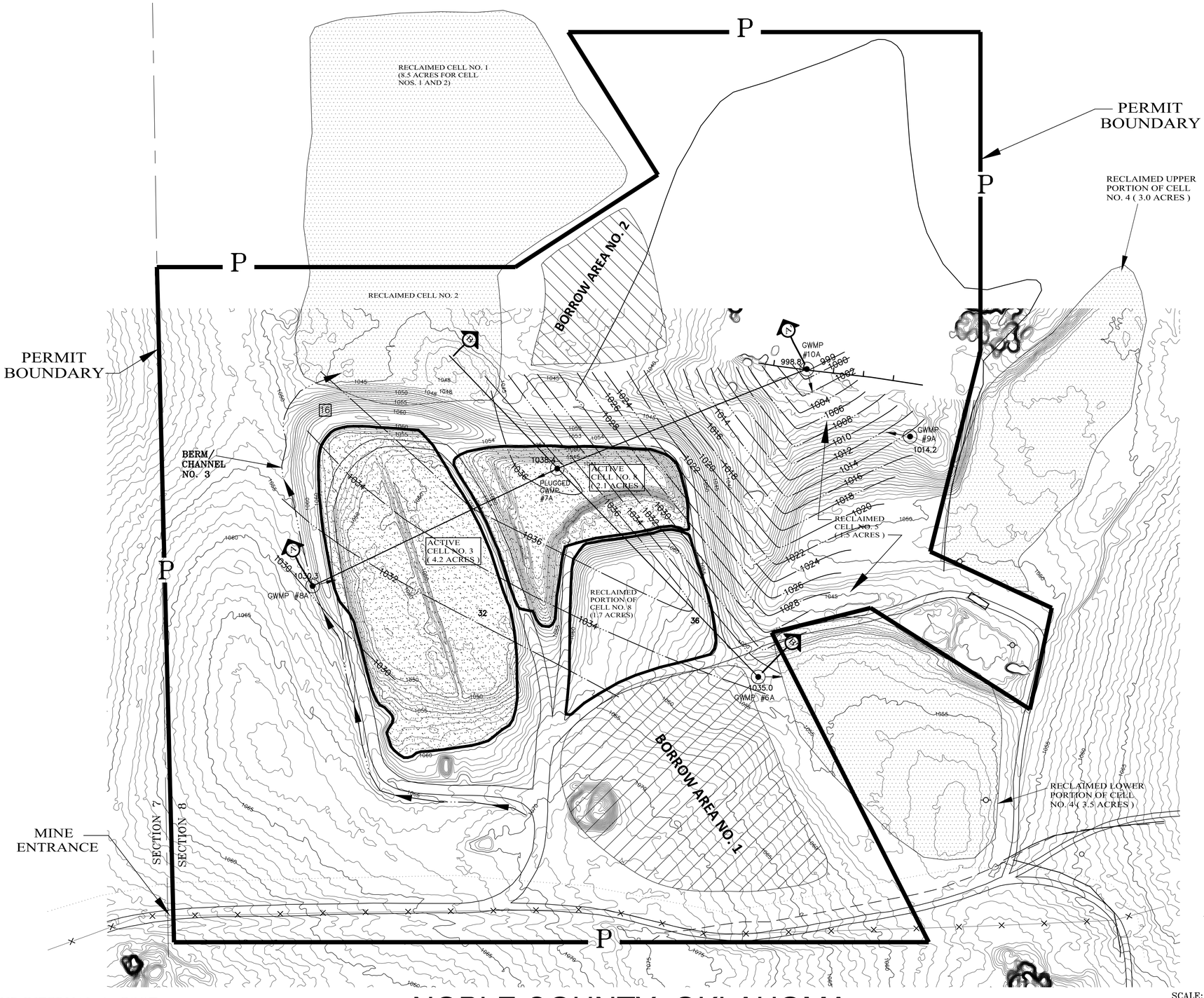
EVANS & ASSOCIATES CONSTRUCTION CO., INC.

3320 NORTH 4TH STREET, PONCA CITY, OKLAHOMA 74602

MINE NAME **BIG FORK RANCH**

R 3 E

T 24 N



CONTOUR INTERVAL: 1 - FOOT

DATE OF PHOTOGRAPHY & CONTOURS: JUNE 29, 2017

NOBLE COUNTY, OKLAHOMA

SCALE: 1" = 100'

100 50 0 100 200

LEGEND

- PROPERTY BOUNDARIES
- PERMIT BOUNDARIES — P
- SURFACE OWNER AND PERCENTAGE — KAW LAND & CATTLE CO., INC.
- COAL OWNER AND PERCENTAGE
- FEDERAL COAL LEASE — FCL
- BOUNDARIES OF AREA TO BE DISTURBED — D
- PRIME FARMLAND BOUNDARIES — PF
- TRAIL
- WATERSHED BOUNDARIES — W/S
- SECTION LINE
- PRE-MINE CONTOUR — 950
- ANTICIPATED POST-MINE CONTOUR
- COAL STRUCTURAL CONTOUR
- OVERBURDEN ISOPACH — 700
- COAL THICKNESS ISOPACH
- COAL STRIKE AND DIP
- COAL SUBCROP LIMIT
- POWER LINES — Z
- TELEPHONE LINES OR CABLES — T
- FENCES
- REFERENCE AREA — R/A
- BUFFER ZONE
- ARCHAEOLOGICAL SITES
- SURFACE WATER MONITORING POINT — SWMP
- SURFACE WATER SAMPLING POINT — SWSP
- PREVIOUS GROUND WATER MONITORING POINT (INSTALLED UNDER ODEQ AUTHORITY, PRIOR TO 1999) — GWMP #1
- PROPOSED GROUND WATER MONITORING POINT (INSTALLED UNDER ODM AUTHORITY) — GWMP #1A
- GROUND WATER SAMPLING POINT — GWSP
- EXPLORATORY DRILL HOLE LOCATION AND NUMBER — G-2
- PERENNIAL STREAMS
- INTERMITTENT STREAMS
- EPHEMERAL STREAMS
- APPROXIMATE LOCATION OF TEST PIT. — 4
- AREA RECLAIMED UNDER ODEQ AUTHORITY, PRIOR TO 1999 (PIT NOS. 1, 2, AND 4).

CONSTRUCTION NOTES

1. THERE SHALL BE NO BLASTING WITHIN 300 FEET OF ANY OCCUPIED DWELLING, PUBLIC BUILDING, SCHOOL, CHURCH, HOSPITAL, OR NURSING FACILITY, UNLESS THE NECESSARY APPROVALS ARE OBTAINED.
2. BUFFER ZONE = (1.5 X MINING DEPTH) + 25 FEET WILL BE ESTABLISHED ALONG THE BOUNDARY OF THE PROPERTY OWNED BY ADJOINING OWNERS ALONG THE HIGHWALL.
3. CONTACT OKIE DATA AT 1-800-522-6543 TO VERIFY THE LOCATIONS OF THE UTILITY LINES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. BERM/CHANNELS WILL BE BUILT, IN SEGMENTS WHEN NEEDED, TO DIVERT THE RUNOFF WATER AWAY FROM THE DISPOSAL PITS.

GROUNDWATER MONITORING WELLS

POINT NO.	NORTHING	EASTING	LATITUDE	LONGITUDE	GROUND ELEVATION
GWMP #6A	2258945.025	574722.081	N36° 34' 29.05"	W97° 00' 39.13"	1055.42'
GWMP #8A	2258160.837	574856.041	N36° 34' 30.45"	W97° 00' 48.73"	1057.97'
GWMP #9A	2259370.613	575206.678	N36° 34' 33.80"	W97° 00' 33.86"	1028.96'
GWMP #10A	2259214.6	575355.787	N36° 34' 35.29"	W97° 00' 35.75"	1017.59'

R 3 E

PROJECT LOCATION

T 24 N	6	5	4	3	2	1
	7	8	9	10	11	12
	18	17	16	15	14	13
	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

MP-9

PREPARED BY:

EMERA CORPORATION
P. O. BOX 2228, EDMOND, OK 73083

PREPARED FOR: EVANS & ASSOCIATES CONSTRUCTION CO., INC.
3320 NORTH 4TH STREET, PONCA CITY, OKLAHOMA 74602

TITLE OF MAP: HIGHEST HISTORIC GROUND WATER ELEVATION MAP (During 2003 to 2016)

DRAWN BY:	CET	SCALE:	1" = 100'	DATE:	9-13-2017
DRAWING NO:	MP-9	SHEET	10 OF 11	REVISED:	

NAME OF PROJECT: BIG FORK RANCH

LOCATION: A PART OF SECTION 8, T24N, R3E, NOBLE CO., OKLAHOMA

PERMIT NO.

APPROVED BY: